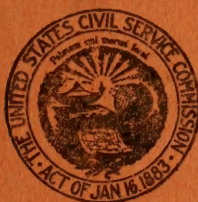

UNITED STATES CIVIL SERVICE COMMISSION
WASHINGTON, D. C.

A GUIDE
for the
PLACEMENT OF THE
PHYSICALLY
IMPAIRED

(Formerly Operations Manual for the
Placement of the Physically Handicapped)



PAMPHLET 14

Fourth Edition — October 1946

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AMERICAN FOUNDATION
FOR THE BLIND INC.

UNITED STATES CIVIL SERVICE COMMISSION
WASHINGTON, D. C.

COMMISSIONERS

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and Chief Examiner

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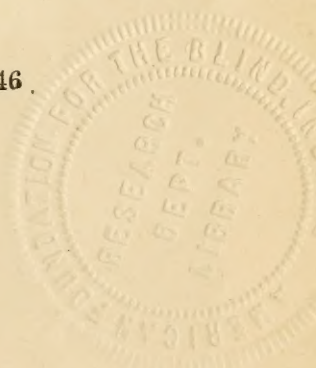
Prepared by the Medical Division and by Regional Medical
Officers, U. S. Civil Service Commission
under Direction of

VERNE K. HARVEY, M. D., Medical Director

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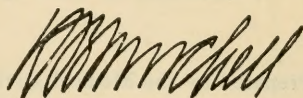
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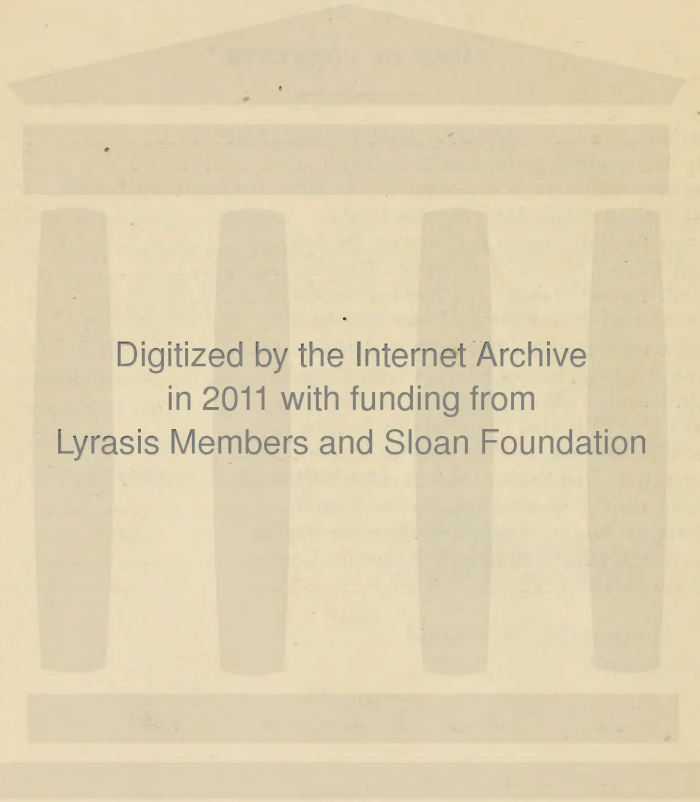
The Commission wishes to express its gratitude to commanding officers, appointing officials, medical officers, safety engineers, foremen, and supervisors in the various shore establishments of the Navy Department and in the field establishments of the War Department, the Post Office Department, and other agencies for the assistance which they gave to the Commission's regional medical officers. The cooperation of these officials made possible the accumulation of the information contained in this manual.



HARRY B. MITCHELL,
President.

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INTRODUCTION

This Guide is the fourth edition of a publication showing the results of a study which has as its purpose the standardization of the minimum physical requirements necessary for various positions in the Federal civil service. The first three editions of the publication were entitled "Operations Manual for Placement of the Physically Handicapped." The study was the first of its kind to be made by medically trained personnel. The Guide enlarges on the previous subject matter, and brings up to date the work of the Civil Service Commission in this field. The information was obtained for two major purposes:

1. To utilize in a judicious manner the services of the physically impaired in Government service, with a view to compensating for labor shortages during the war.
2. To obtain experience in the placement of the physically impaired which can be used for the benefit of disabled veterans and industrial workers during and after the war.

During the past 30 years physical standards for employment have been both extremely high and extremely low. During the first World War and the period immediately preceding it, the standards were low, and allowed the employment of many persons who were unjustifiable industrial risks. After the first World War, the pendulum swung to the opposite extreme: Physical requirements were in effect which were not always justifiable from the point of view of efficiency and safety. The Commission's survey is an attempt to effect a balance in standards, and to render the preemployment examination an instrument for placement.

The surveys were not made by industrial specialists, but by regional medical officers of the Commission. Their decisions were based mainly upon objective studies. For collateral information, the medical officers depended, to a considerable degree, upon safety engineers, medical advisors, foremen, and supervisors in the establishments which they visited.

Figure 1 represents the job analysis form used by the medical officers in studying each position. The form is divided into three major parts:

1. Functional factors of the position.
2. Environmental factors of the position.
3. Heart and lung factors.

The survey represents the first major phase of the research program. The second phase consists of an evaluation by the Commission's Medical Division of the reports submitted by regional medical officers. The evaluation is designed to eliminate inconsistencies and discrepancies and also to treat the medical-technical aspect of placement in detail.

The information contained in the guide is subject to revision from time to time to provide for new positions which are found to have placement potentialities and also to bring the contents into accord with changing industrial practices and changing conditions of the labor market. Revisions are also based upon recommendations by vocational training agencies, observations of the regional medical officers, and suggestions of management.

This edition of the guide contains a consideration of approximately 6,160 positions. The coverage has a wide geographical range and includes practically all of the important governmental industrial establishments. The positions studied actually represent many thousands of positions.

The factors to be considered in utilizing information obtained on surveys were originally published with a code for the disabilities, a code for the civil-service regions and the particular establishments, and also occupational codes of positions, wherever possible, according to the United States Employment Service dictionary of occupational titles. In the present edition, the codes for disabilities and the codes for the regions and particular establishments have been eliminated.

The information has been arranged in tabular form. The civil-service regions in which the positions exist are listed numerically. Under each region appear alphabetical listings of the agencies, including the constituent establishments of the agencies and their locations. The names of the positions appear alphabetically under the establishment listings. The disabilities acceptable for each position are divided into categories, as follows: (1) Orthopedic defects (amputations and disabilities), (2) impaired vision, (3) impaired hearing, and (4) chest (organic

*State maximum number of pounds required to lift (if checked).
 †State working distance from material and comment on lighting and whether employees are required to wear safety glasses or goggles.
 ‡State approximate decibels if information is available.

FIGURE 1

III. HEART and LUNG FACTORS	
<p style="text-align: center;">A. CARDIO-VASCULAR</p> <p>1. BLOOD PRESSURE</p> <p style="padding-left: 20px;">A. MODERATE HYPERTENSION IS ACCEPTABLE <input type="checkbox"/></p> <p>2. HEART</p> <p style="padding-left: 20px;">A. ORGANIC HEART DISEASE COMPENSATED IS ACCEPTABLE <input type="checkbox"/></p>	<p style="text-align: center;">B. RESPIRATORY-TUBERCULOSIS</p> <p>1. HEALED AND STABLE ACCEPTABLE 44</p> <p style="padding-left: 20px;">A. MINIMAL OR MODERATE INVOLVEMENT <input type="checkbox"/></p> <p style="padding-left: 20px;">B. FAR ADVANCED INVOLVEMENT ACCEPTABLE <input type="checkbox"/></p> <p>2. ARRESTED</p> <p style="padding-left: 20px;">A. MINIMAL INVOLVEMENT <input type="checkbox"/></p> <p style="padding-left: 20px;">B. MODERATE INVOLVEMENT <input type="checkbox"/></p> <p>3. COLLAPSE THERAPY ACCEPTABLE <input type="checkbox"/></p>
<p>DOES ESTABLISHMENT HAVE MEDICAL SUPERVISION? YES NO</p> <p>IS THERE AN INDUSTRIAL SAFETY BRANCH? YES NO</p>	
<p>Instructions:</p> <p>In making each survey this form only is to be used. Medical officers are instructed to check each factor which pertains to the position being considered, as well as to check the block following each disability code if the disability is acceptable. The one space not to be filled in is that regarding occupational code. A complete statement of the duties involved, including equipment used, must be given in the space provided below.</p>	
<p>DUTIES OF POSITION (GIVE FULL DESCRIPTION)</p>	
<p>SUMMARY OF ACCEPTABLE DISABILITIES (TO BE FILLED IN BY CENTRAL OFFICE ONLY)</p>	
<div style="display: flex; justify-content: space-between;"> <div> <p>.....</p> <p>(DATE OF SURVEY)</p> </div> <div> <p>.....</p> <p>(SIGNATURE OF MEDICAL OFFICER MAKING SURVEY)</p> </div> <div> <p>.....</p> <p>(TITLE)</p> </div> </div>	

U. S. GOVERNMENT PRINTING OFFICE 16-52094-3

FIGURE 1—Continued

heart disease, compensated, and pulmonary tuberculosis). The mark "X" is used to indicate that the particular disability under which it appears is acceptable for the position shown. Where the "X" appears under the heading of "depth perception" or "color vision," it is an indication that these factors are essential to the proper performance of the duties involved.

Footnotes supply a variety of information concerning the positions. In most cases positions are referred to by pay-roll designations. Positions with identical duties may vary in title according to establishment and, in some instances, within the same plant. Many titles of positions listed on pay rolls were nonspecific—for example, employees were listed as machine operators with no indication in the title as to what kind of machine is operated. In most instances, however, the regional medical officer indicated the particular type of machine operated. When this information was not submitted, machine operations common to the particular industry in which the position occurred were considered in evaluating the information.

The code which precedes each job title is the occupational code number found in the Dictionary of Occupational Titles of the United States Employment Service.

Since all positions in the Federal Government are not included in the dictionary, it was not always possible to assign a code number to the position to indicate the exact job classification, or which would indicate the exact processes involved in the performance of the duties of the position. Whenever it was not possible to find occupational code numbers in the dictionary to fit exactly the positions in a governmental establishment, occupational code numbers of positions approximating or closely akin to the Government position were used. In like manner, when code numbers of the proper industrial designation could not be found to fit the type of industrial activity involved in a Government position under consideration, code numbers of industrial activity closely akin to that in Government were used.

The dictionary and its latest available supplements were used in processing the information in this guide. Additional surveys by the United States Employment Service of positions not covered in the dictionary or in the supplements will modify existing code numbers given to some of the positions listed in this guide.

A complete explanation of the occupational classification and codes may be obtained from the United States Employment Service dictionary. It will suffice here to mention that the occupations are divided into major groups which contain more subgroupings. The codes are constructed to indicate relationships of subgroupings of occupations to major groups of occupations. The first three digits of the code indicate that the major groups are divisions of occupation, while the second three digits indicate the subdivision.

In a study of this type it is not possible to consider every type of physical defect which may be encountered in making placements. Accordingly, the objective was to find suitable positions for the placement of individuals having physical defects which are relatively permanent and static. The various types studied may be grouped into the following:

1. Orthopedic defects

In the placement of individuals who have orthopedic crippling conditions, only the permanent or static deformities should be considered. Acute, subacute or chronic disease processes of the bone, blood vessels, and muscles causing orthopedic deformities or disabilities are not suitable for judicious placement in view of the possibility of an exacerbation involving one or more additional organ or members of the body, which may place additional limitation on the employee not anticipated in his vocational training; i. e., the disease itself, apart from the resulting deformity, also may impose additional limitation on the employee's activity.

Disabilities and deformities due to poliomyelitis and amputations due to accidents are common. These may be classed for all practical purposes as being static or permanent physical impairments, and persons with such defects are the most suitable of the orthopedic class for judicious placement in Government industry. In the placement of the physically impaired in the orthopedic group, it is important that complete medical reports be obtained. When necessary, depending on the nature of the impairment, special reports from orthopedic specialists should be requested. Extra occupational hazards must be considered in placement. For example, there are a number of positions in Government establishments the duties of which could be performed by persons with orthopedic

defects; however, the immediate environment in which they would have to work is hazardous. This situation necessitates placement in shops with less hazardous environment, away from yard locomotives, trucks, moving trains, and other machinery. As a general rule, machine shop work is particularly suitable for persons with orthopedic impairments.

Arm and hand disabilities will be found to offer more serious placement problems than defects of a lower extremity, except when the functional factors of the job are changed to meet the impairment by job subdivision. It is expected, however, that improvement in orthopedic appliances devised for the arm and hand disabilities will go far in making the placement picture of persons with such disabilities more favorable. It has been found that the range of suitability for such persons in governmental industrial employment can be determined only by strict correlation of the extent of the impairment with a careful analysis of all functional factors of the arms or hands involved in the performance of duties. If the functional factors indicate that only one good arm or one good hand is necessary, no particular attention should be given to the efficiency of the orthopedic appliance or the defective member. The functional processes of numerous occupations in Government industry can be broken up to allow for the loss of an arm or a hand. In other occupations, an artificial appliance and one good arm or hand would enable a handicapped person to perform the duties satisfactorily. In the majority of governmental industrial positions, the loss of the ring or middle finger on one hand has not been found to hinder efficient performance of a job. Of course, loss of a thumb on either hand necessitates the careful review of the functional factors of the position, since this defect usually renders the employee incapable of picking up, holding, and manipulating small articles, which are very common functional processes in a large number of skilled trade positions.

In considering orthopedic defects, a number of other factors in addition to motion should be considered in estimating the functional disability of an extremity or a part of an extremity. These factors are the adequacy of physical restoration, the residual power of the muscles in the affected extremity, the coordination of movements, the sense security of the handicapped person, his endurance, quickness of reaction, and the effect of the deformity on his prestige in securing or pursuing his regular occupation. In connection with coordination of movement, the forces which maintain body equilibrium must be taken into account.

In considering employability it must be borne in mind that an orthopedic impairment, whether a deformity or an amputation, does not always necessitate a change in occupation for full physical restoration and vocational rehabilitation. The present occupation may call for only 10 percent of normal musculoskeletal efficiency of an anatomic part, whereas after the impairment the subject may retain as high as 95 percent efficiency, depending on the severity of the disease or the injury. Moreover, a person with an impairment, by concentrating attention on those faculties which remain intact, can develop other capacities. In any event, the more intelligent the impaired person is the more he will be able to find immediate employment of his remaining faculties or capacities.

The placement of a person who has undergone amputation of an upper extremity or of a part thereof naturally depends on the remaining capacity of the impaired member and on whether or not this member is absolutely essential in the performance of any particular job. It must be remembered, however, that the loss of a right upper extremity is, in most instances, far more serious than the loss of the left—for the simple reason that most persons are right-handed. Loss of function through amputation of the right upper extremity may necessitate an extended period of "education" of the left arm.

It is believed that research now being done on improving prosthetic appliances for the arm will make the placement possibilities for arm amputees much more favorable. In analysing jobs in the Federal service, 731 different types of positions suitable for such amputees were discovered—875 suitable for persons with hand amputations, and 3,011 suitable for persons with finger amputations.

Studies of employees in this group show that their efficiency and productivity are good if they had been properly placed. The distribution curve of productivity, both in quantity and in quality, is the same as that for able-bodied employees. It has been the Commission's experience that the safety records of employees with arm and hand amputations have been as good as those of the able-bodied. The safety records of employees with finger amputations have not been good. When the psychologic problems which arise in finger amputees are adequately met, the industrial prognosis of all those with amputations of the upper extremity may,

generally speaking, be considered good. If the examining physician can furnish an indication of working capacity by considering the functional loss after physical restoration, and the functions demanded by the job are analysed, a decision as to placement can be arrived at on a trial basis. After trial, the employee and the job can be reexamined and, if necessary, adjustments can be made.

In dealing with amputations of the lower extremities, it must be realized that whereas prehension is a primary function of the upper extremities, the primary function of the lower extremities is weight bearing. The consideration of motions, coordination, sense of security, endurance and other factors mentioned in connection with the upper extremities apply also to the lower extremities.

It has been the Commission's experience that, except for persons with high leg amputations, this group of physically impaired who have proper prosthesis become the least disabled of all the impaired. Their limitations in standing, climbing, crawling, and running are obvious. However, there are individual members of this group who by persistence practically overcome any limitations in standing, and some have developed remarkable ability in running. All, however, seem to have some slight difficulty in maintaining balance and in taking a certain shock or strain on the prosthetic appliance. Double leg amputations, except in persons with stumps below the knee, present a serious problem, and the prosthetic appliances at present available may result in marked limitations in capacity for work.

The placement potentialities of persons with amputations affecting the lower extremities are broad. In a study of 6,160 positions in the Federal service, the Commission found 2,576 suitable for positions with amputations of the thigh or the lower part of the leg and 2,837 suitable for persons with foot amputations. Men with double leg amputations, as pointed out, present a more serious problem in placement. However, the Commission found 81 kinds of positions suitable for this group, and believes that there are many more. The industrial prognosis for employees with lower leg amputations is good. They have a normal distribution curve for productivity and efficiency. Studies of their accident rates show that they have a very favorable experience. In fact, the frequency and severity of their accidents are lower than those of the able-bodied group of similar age, experience and occupational characteristics.

An even larger group of impaired persons in the labor market is composed of those of orthopedic deformities. The principles followed in placing persons with functions deranged as a result of deformities are the same as those followed in placing persons with amputations, except that the question of prosthesis does not play as important a part. Further, there is a greater diversity of age in the orthopedic group, since a large number of the deformities are due to poliomyelitis occurring in childhood; functional readaptation is different for persons with deformities occurring in an older age than for those whose deformities occurred at a younger age.

In the Commission's experience, most of the serious placement problems involving the working capacity of persons with orthopedic defects have been concerned with derangements of shoulder or hip resulting from disease or trauma. These articulations are fundamental from the standpoint of the control of the extremities. They bear an inter-relationship with lesser articulation—i. e., the shoulder joint acts in coordination with the elbow, the hip in coordination with the knee.

A number of jobs found to be suitable for persons with deformities in the upper extremities is relatively high; 1,741 were found suitable for those with deformities of the arm, 2,225 for those with deformities of the hand, and 2,949 for those with deformities of the fingers. The productivity and efficiency distribution curves of this group approximate normal when they are selectively placed. The safety records of this group were not found to be as favorable, either in frequency or severity of accidents, as those of the able-bodied. Fatigue no doubt plays an important role in their accident experience.

The placement of persons with deformities of the extremities has, in the Commission's experience, been less satisfactory than that of persons who have undergone amputations. This is true mainly because of the less favorable safety records of those having shoulder and hip deformities. The Commission believes that the fatigue factor in persons with these deformities is great and that it necessitates systematic reexamination of the employee and the job at intervals in order to make necessary adjustments. Though the distribution curve showing the productivity and efficiency of this group approaches normal, it is not as favorable as that of employees with other orthopedic defects.

In 6,160 job surveys, placement potentialities were high for persons with deformities of one leg (3,026) and one foot (3,125), but were extremely low for those with both feet (369) or both legs (438). Productivity-efficiency distribution curves for persons with deformities of the lower extremities were approximately normal. On selective placement where the accident experience of those with deformities of the hip was not considered, the remainder of the group, who had deformities of the lower extremities, was found to have a lower accident rate than able-bodied workers of similar age, sex, and occupational characteristics.

2. Vision defects

For the purposes of this guide, the Commission has accepted the definitions of the blind used by the Services to the Blind, Office of Rehabilitation, Federal Security Agency, as follows:

"Any person who has not more than 20/200 of visual acuity in the better eye with correction lenses; or visual acuity greater than 20/200 but with a limitation in the field of vision such that the widest diameter in the visual field subtends in angle no greater than 20°."

The placement of persons who are blind presents various special problems. Small groups of positions in sheltered environment, involving repetitive work, were surveyed in Government establishments and were found to have placement potentialities for the blind.

Persons who are blind in one eye and have good vision in the other represent a very important group with placement potentialities. Since it is questionable whether or not one-eyed persons develop a true stereopsis or depth perception, it has not been considered wise to appoint these individuals to dangerous positions. Such positions include those which involve working at high altitudes or on scaffolding, or the operation of moving machinery, cranes, feeding machines, trucks, and tractors. For many of these positions, the surveys indicate normal acuity, stereopsis, normal muscle balance, and also normal color vision are essential.

Positions such as laborer, handyman, metalsmith, and certain types of mechanics and machinists were not found to require any unusual visual aptitude.

Surveyed positions which have been found to be particularly hazardous, with a possibility of further damaging the visual apparatus, have not been tabulated to indicate that persons with one eye can be placed in them. Such positions include those in which corrosive solutions are used or where abrasive particles may be thrown into the eye by grinding or chipping tools.

Many persons with impaired visual acuity fall into the so-called "industrially blind" class. Various ranges of visual acuity have been included in the "industrially blind" classification. A liberal interpretation of the range of industrial blindness may include persons who, with optimum correction, have 20/70 to 20/180 residual visual acuity. As indicated above, persons with 20/200 or less visual acuity in the better eye with correct lenses are considered blind according to the definitions of Services to the Blind, Office of Rehabilitation, Federal Security Agency. Poor distant vision, according to industrial standards, with good near vision is considered as being compatible with efficient performance.

The positions listed for the blind in this guide are suitable for the "industrially blind." Many of the positions listed as being suitable for persons who are blind in one eye are suitable also for persons who have impaired visual acuity in both eyes, up to and including the industrial range of blindness. The greater degree of loss in visual acuity, the greater the need for care in placement from the standpoint of protecting the individual from further damage in the visual apparatus and placing him in an environment which is relatively nonhazardous. It should be pointed out that other assets, such as intelligence, manual dexterity and experience, can equalize certain deficiencies of the vision. A person skilled in any of the fields of work, even if he has seriously defective vision, may be better qualified for a job than an employee who has perfect visual acuity, but who is new in the field of work.

The problems of the blind are special ones requiring the assistance of agencies specializing in this field. The capacity of a blind person depends to a great degree on whether he had been blind since infancy or early childhood or was blinded in adult life, on whether he has travel vision, and on his native intelligence and adjustment. The Commission's experience with blind persons has been that they have remarkable compensatory powers in the development of hearing and touch. During the war, the blind in the Federal service have done outstanding work of an instructional nature involving the sense of touch. Their

work in instructional and other fields can be expected to expand with the development of electronics and sounding devices and radar equipment for their use. Of the 6,160 types of positions surveyed in the Federal service, 43 have been found suitable for the blind, and during the war 791 blind persons were placed in various positions in the Federal service. A sampling of this group was found to be as productive and efficient as normal workers. Of the 50 in the sample, 2 were found to have sustained minor accidents over a period of 1 year.

With regard to the working capacity of the industrially blind, it must be remembered that current capacity will depend on the manner in which the defect occurred, the duration of the defect and the ability demonstrated in the past by the individual employee to perform given duties successfully. Safeguarding the remaining vision should be the main concern. In most instances, a person with corrected acuity between 20/100 and 20/200 in the better eye can function successfully in a job in which vision is required primarily for guiding the movements of the body rather than for inspecting materials or objects being processed or manipulated. Of course, this is dependent on the rapidity with which the defect developed and the length of time the visual defect has existed. The longer the defect has been in existence, the greater the chance the subject may have learned to work with the defect.

Stereoscopic acuity may remain intact after severe loss of vision in one eye, and, even when the loss of vision in the eye is complete, time and experience will aid to develop stereoscopic sense. Further, there is a period after loss of vision in one eye in which there is complete loss of ability to judge distance or a loss of the sense of a third dimension. Until the subject has adapted himself in the matter of attaining monocular skill, there are certain types of work involving hazards to himself or others which he cannot perform, such as operating motor vehicles or trains or feeding machines. When he is unable to see objects or persons, or where perception of depth is a requirement, he may be a hazard to himself or to others. Protection of the remaining eye of such an employee, of course, is of the utmost importance. He should not be allowed to operate grinding machines, where the hazard of flying particles is great, unless the safety program of the establishment makes it mandatory that he wear protective goggles.

Of 6,160 types of jobs surveyed in the Federal service, 1,889 were found to have placement potentialities for persons blind in one eye. In the Commission's experience, the job performance of such persons compares favorably with that of persons who have the use of both eyes, except from the standpoint of accidents. The accident frequency rate was high with employees with monocular vision. It is believed that the higher rate may have been due to fatigue.

3. Hearing defects

The following list of positions represent a large number of jobs in the skilled, semiskilled, and unskilled type which can be carried on without the need for extensive communication.

The positions most suitable for the deaf have been found to be those of a routine type in which the same operation is performed over and over again. The surveys have revealed some positions in which it was apparent that the deaf make better employees than persons with normal hearing. Such positions include boilermaker, inspector of material and equipment, and inspector of finished products. The need for communication is not important in these positions.

Hard-of-hearing defects may range from slight impairment of hearing to complete deafness, and there is a corresponding variation in the occupational adjustment of persons so afflicted. The cause of defective hearing may range from simple obstruction due to cerumen or foreign bodies, acute or chronic otitis media, and defective conduction because of malformation, to the complete destruction of perception centers. Many hearing aids offer the same benefit to the hard of hearing as scientifically selected lenses offer to those with defective vision. There are still instruments on the market designed as hearing aids which lack efficiency, adaptability, and durability. It is important, therefore, that the quality of the hearing aids used by the persons who are being considered for placement be evaluated. The efficient and serviceable hearing aid has broadened tremendously the placement potentialities of the hard-of-hearing group.

A considerable number of the hard of hearing have been employed in the Federal industrial establishments and in the Federal service in general. Lip reading, motion pictures, and industrial vocabularies and training will broaden further the placement field for the hard of hearing.

In the placement of the deaf and the hard of hearing, extra occupational hazards must be given due consideration. For example, a chipper in a navy

yard may have very imperfect hearing without materially affecting his efficiency or without his being a hazard to himself or others at the exact place where he performs his duties; however, it may not be advisable to assign him in an open navy yard around heavy moving machinery or locomotives, though he could work as an inside chipper in one of the shops. With very few exceptions, surveys have revealed placement potentialities for machine-shop jobs or structural-shop jobs for the hard of hearing and the deaf. It is not expected that many difficult placement problems will arise in utilizing the services of this group.

In both groups, consideration must be given to psychological or emotional maladjustment, which occasionally accompany these defects and may make the handicapped person an unsuitable employee. It is important for persons responsible for placement to determine whether deaf or hard-of-hearing persons under consideration for employment have a healthy attitude toward their defect or environment before placement is attempted.

Many circumstances affect the capacities of the deaf and hard of hearing; foremost of these is the individual's adjustment to the defect. Lists of jobs suitable for persons with impaired hearing, while having value only in a suggestive sense, are useful in the ordinary cases of persons who must look for work in which hearing is not essential. If a person displays an unusual degree of ingenuity and adjustment, his vocational aptitudes are more important in evaluating his capacity for work than listings of jobs in which hearing is not essential.

As with the deaf worker, the history of work or training is one of the most important considerations in determining the current capacity of the applicant who is hard of hearing. In this connection, persons with hearing losses may be found to have been successfully employed in practically every type of occupation. The Commission has considered the hard of hearing (as well as the deaf) a very important segment of the labor market and has encouraged their employment. Of all types of positions found suitable for the physically impaired by survey, the largest number were those for the hard of hearing (3,867 of 6,160). The job performance for the hard of hearing—productivity (both quality and quantity) and efficiency—were found to compare favorably with that of the able-bodied. Their experience of accidents was less favorable than that of the able-bodied because of psychological factors in individual cases.

4. Chronic diseases

a. Cardiac.—The guiding principle in establishing disability codes relating to heart disease follows very closely the American Heart Association classification. No attempt has been made to interpolate in disability placement codes any consideration of different types of heart disease.

Persons with a history of rheumatic heart disease should not be placed in positions in a damp environment, or in an environment presenting sudden temperature changes.

Persons with cardio-vascular symptoms are considered the least satisfactory of all the cardiac diseases from the standpoint of placement. The Commission's statistics indicate that this defect has a high incidence in the laboring classes and, in most instances, incapacitates to the extent where vocational training and placement are difficult. In view of the poor prognosis of the disease, placement is often inadvisable.

Persons with a history of coronary disease, manifested by angina pectoris, coronary thrombosis, cardiac asthma or paroxysmal dyspnea, are not justifiable risks for placement in Government industry. There are a small number of positions in Government industry in which persons with hypertensive heart disease may be placed, provided there is no history of decompensation.

Placement potentialities have been tabulated for a considerable number of machine-shop or drafting positions involving desk or bench duty. All positions which, on survey, disclosed that performance of duties involving climbing of ladders, frequent climbing of stairs, stooping, pushing, crawling, frequent lifting, or other types of arduous physical exertion have not been tabulated to include cardiac disability.

The following additional guide may be used, at least on a trial basis, for placing persons with heart ailments, in conjunction with the classification of functional capacity made by the American Heart Association:

1. Avoid occupations involving sudden spurts of work and unduly slack intervals of rest (running, crawling, rapid climbing).
2. Select jobs with regular hours (regularity of work) and favorable conditions of work (extreme air pressures and temperatures should be avoided).

3. Consider what the applicant has been accustomed to. If he has been engaged for a long time in a comparatively heavy trade, he may have continuing capacity for economizing his energy.

4. Work which places a fairly heavy strain on the lower extremities usually can be more easily tolerated than work in which the main strain is on the arms.

5. Place no person with a lesion liable to cause vertigo, syncope, or sudden death in any trade that involves climbing ladders, working at high altitudes or being near dangerous machinery, or in any job in which he may endanger the lives of others.

6. As a general rule, avoiding dusty occupations especially if the candidate has a mitral lesion, since dust may induce coughs or favor bronchial congestion, to which persons with a disease of the mitral valve may be particularly susceptible.

7. Avoid any job, particularly in the case of rheumatic heart disease, requiring work in uneven temperatures, in damp places or in any environment likely to cause infection of the upper respiratory tract.

8. Avoid occupations likely to involve too much anxiety or emotional disturbances.

In seeking occupations suitable for persons with compensated heart disease, the Commission studied 6,160 types of positions and found 2,913 suitable for this group. A study of the efficiency and productivity of these persons indicates that they compare favorably with normal persons. Their accident rates were slightly higher than those of normal persons with respect to frequency but were as good as those of the able-bodied with respect to severity.

b. Tuberculosis.—The influence of occupation on the incidence and mortality of tuberculosis among wage earners has been the concern of industrial insurance companies and public health agencies for more than a generation. In no other type of physical defect does environment assume such an important role in placement consideration as it does in the case of ex-tuberculous individuals. Factors such as extreme changes of temperature and humidity have been considered unsuitable in the placement of persons with a history of tuberculosis, although these factors have not been proven to affect appreciably the incidence of the disease. Since dust containing a high percentage of silica has been found to alter susceptibility to tuberculosis and also to have an adverse effect on persons with a history of tuberculosis, positions which have been reported to involve this hazard are not listed as offering placement and potentialities for persons with a history of tuberculosis. Also, positions in which employees would be exposed to fumes or gases have not been considered suitable for ex-tuberculous individuals.

Since fatigue is well recognized as being unfavorable to the welfare of the ex-tuberculous individual, positions which involve strenuous physical activity, such as heavy carrying, lifting or pushing, constant stair or ladder climbing, and excessive walking or talking were not listed as placement potentialities for ex-tuberculous persons.

GUIDES TO PLACEMENT

Certain important general criteria for the placement of persons who have a history of tuberculosis are met by the following standards:

1. Physical requirements must not overtax the working capacity of the individual employee as determined by the history of previous work and the follow-up on the new job.

2. Working conditions must not be conducive to reactivation of the disease.

3. In working at the job, a tuberculous employee must not subject others to the hazard of contracting the disease.

In analyzing the Federal service for positions suitable for persons with a history of tuberculosis, the Commission surveyed 6,160 types of positions and found 3,012 suitable. The job performance of tuberculous persons was found to have the same distribution curve in productivity and efficiency as that of able-bodied persons. Their safety record was better than that of the able-bodied from the standpoint of both frequency and severity. Their rate of absenteeism for sickness was high. This may have been due to the fact that they take sick leave as a precautionary measure, having been conditioned to the idea of avoiding fatigue during the course of treatment for the disease.

Diseases, or disabilities which frequently present placement problems, but which have not been included in this guide are: (1) Epilepsy, (2) syphilis, (3) diabetes, (4) peptic ulcer, and (5) hernia. These disabilities have not been included as

they are not both permanent and static. While epilepsy and diabetes may be considered as more or less permanent, they are not static in the sense that the severity of the condition will vary depending upon the skill of the attending physician in prescribing suitable medication and dosages and in the faithfulness of the patient in following the instructions of his physician. A number of positions exist in the Federal service which have placement potentialities for individuals with the above-named defects. The placement of individuals having such defects, however, can be made only after thorough study of an individual case by a medical officer and a correlation of the duties of the position as determined by job analysis and the environmental factors pertaining to the position, plus the results of medical study.

FIRST REGION

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, POST OFFICE AND COURTHOUSE BLDG., BOSTON, MASS.

Code	Title of position	Depth perception required	Color vision required	Orthopedic																				Eyes		Ears		Chest		
				Amputations										Disabilities																
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac
5-81.010	Automobile mechanic, general ¹																													
5-25.830	Carpenter ²																													
2-84.10	Charman																													
2-82.10	Charwoman																													
2-82.10	Charwoman, head ³																													
0-87.10	Clerk, chief, custodial service ⁴	X	X																											
0-59.01	Coal passer ⁵																													
4-07.420	Electrician ⁶																													
5-83.921	Elevator mechanic helper ⁷	X	X																											
5-83.921	Elevator mechanic, principal ⁸	X	X																											
2-93.20	Elevator operator ⁹																													
2-95.20	Elevator operator, chief ¹⁰																													
5-72.020	Engineer, chief ¹¹																													
7-70.010	Fireman helper ¹²																													
2-61.04	Guard ¹³																													
2-84.10	Janitor ¹⁴																													
2-86.100	Laborer, custodial ¹⁵																													
5-49.03	Laborer foreman ¹⁶																													
2-86.10	Lampist ¹⁷																													
1-28.01	Mail carrier ¹⁸																													
1-27.10	Mail handler ¹⁹																													
1-23.14	Messenger ²⁰																													
5-30.210	Plumber ²¹																													
1-27.10	Postal clerk, substitute ²²																													
1-42.32	Telephone operator ²³																													
1-42.32	Telephone operator, chief ²⁴																													

While this man's duties are largely supervisory, it isn't uncommon for him to be called upon to perform the duties of any 1 of the employees he supervises.

¹⁵ The duties of laborer in the custodial service require him to have a flexible body trunk throughout. While the ability to hear ordinary conversation is desirable, it is not absolutely essential. The employee must have considerable agility and be proportionate in weight and height.

¹⁶ The duties are largely supervisory but he may be called upon to perform work of arduous nature.

¹⁷ The lampist is required to climb ladders to a height of about 30 feet. A flexible body trunk without any arthritis is required. Deaf people might be acceptable although preference should be given to people who can hear ordinary conversation. This individual works in an atmosphere of excessive light and high elevations.

¹⁸ This employee sorts mail on a desk, places it in compartments on a rack according to streets or buildings, ties it in bundles with string or a letter strap and places it in his leather pouch. He then delivers the mail which often involves prolonged walking and climbing of stairs. The weight is about 40 pounds.

¹⁹ The position of mail handler is an arduous one. Severe varicosities of the lower extremities or arthritis will seriously interfere with performing the duties efficiently. Heart disease, well compensated, is acceptable, and excessive hypertension is contraindicated. A normal body trunk, movable in all planes, is necessary on this job. He carries heavy mail bags, spreads the mail on tables and sorts it, and receives pneumatic tube carriers and empties them on tables or forwards them intact. There is much dust from the mail bags.

²⁰ The position of messenger requires a normal flexible back free of arthritis. Two normal lower extremities free of arthritis or varicose veins are indicated, but 1 normal upper extremity is sufficient. Arrested tuberculosis will not constitute an undue risk in this position, and even persons receiving pneumothorax treatment will be accepted. Well-compensated organic heart disease is acceptable, and a moderate hypertension is likewise acceptable. Height and weight have no bearing on the proper performance of the duties.

²¹ The job of plumber is painstaking, exacting, and arduous. In this job a man would be required to have good hearing to detect through this sense imperfections in machinery. The plumber works in an atmosphere of dust and gases. Height-weight relationship is of relatively no importance.

²² Organic heart disease, well compensated, and moderate hypertension will not disqualify. Applicants with arrested tuberculosis may be accepted. Height-weight relationship is not a factor in this job.

²³ The position of telephone operator requires good vision and good hearing. Since this job is largely a sedentary one, varicose veins of the lower extremities are acceptable. Persons with emotional instability (psychoneurosis) are not suitable for this position.

²⁴ The chief telephone operator is required often to fill in for an absent telephone operator and should therefore be able to perform the duties of the telephone operator, in addition to the function of general supervision. The chief telephone operator walks about frequently from one telephone operator to another which requires satisfactory function of lower extremities.

¹ The work is arduous.

² The work is rather arduous. It is possible that a 1-armed man or 1 totally deaf could handle this job. The carpenter often works at high elevations and in a dusty and gaseous atmosphere. Arthritis would hamper him in the performance of his duties. A person who has dizzy spells should not be employed.

³ This employee supervises 65 charwomen, instructs new charwomen, and, if short of help, performs the duties of a charwoman. Persons with arthritis in any segments of the vertebral trunk are not suitable. Severe hypertension renders the employee a hazard to herself.

⁴ This employee has the direct supervision of 500 custodial employees who work in 22 buildings. He is responsible for the proper cleaning and maintenance of the buildings and the inspection of the guns carried by the guard force.

⁵ Persons with weakness of the abdominal wall (hernia) are not suitable for this position. Agility is necessary.

⁶ The duties are arduous and the employee is required to work on elevations and in subpassages.

⁷ The duties are hazardous. The employee works in a dusty atmosphere and on high elevations. No more than 2 fingers on 1 hand could be missing but both thumbs are essential.

⁸ This man is required, under certain circumstances, to perform the same functions as the elevator mechanic helper except that his job is more often than not a supervisory one. This job is extremely hazardous.

⁹ A body trunk with a normal cervical spine and mild arthritis in the other segments of the vertebral column is acceptable. The job requires average height to operate the elevator. Prolonged standing is required in this position.

¹⁰ This employee supervises 20 elevator operators. Agility is essential.

¹¹ While this job is largely a supervisory one, this man may be called upon to perform the functions of any of the 24 men under his supervision. It is a responsible and at times a perilous job because of the considerable amount of climbing involved. This job involves walking through small openings and narrow passageways. This job requires a flexible body trunk.

¹² The fireman's helper works in an atmosphere of extreme heat and dust. The employee must be able to carry coal to the boiler. Arthritis of the spine in any segment is not acceptable. Because of the required bending in every direction, a hernia would be aggravated. Since this employee is required to be agile, persons should be proportionate in weight and height.

¹³ The guard's duties not only involve those of watchman, but occasionally those of laborer or elevator operator. The guard is armed. He should not have any circulatory defects such as varicose veins. The body trunk should be flexible in all its segments because of the bending that is required. The hearing should be good enough for ordinary conversation. Because of the necessity of walking through narrow passageways, the employee should be agile. Moderate hypertension under medical supervision is acceptable.

¹⁴ The janitor in this building has charge of 45 men. His duties involve the supervision of cleaning, control of the guards, furniture moving, and general upkeep of the building.

stationary and requires very little agility. On the ships, agility and the ability to work in small spaces are essential.

¹⁴ The joiner at the Boston Navy Yard is a ship cabinetmaker. The work is not arduous, but the shop conditions are rather hazardous.

¹⁵ Organic heart disease constitutes a risk only in that the loft is reached by climbing a very long flight of stairs. While the actual duties of this position are not excessively arduous, most of the work is done on the floor, requiring that the worker spend much time on his hands and knees. A weak back or any weakness of the limbs would interfere with the proper performance of the duties. A small error in the loft may result in a very costly error in the other shops, hence alertness is essential.

¹⁶ The inside machinery or tool maker may be seriously handicapped physically, yet able to do a satisfactory day's work at his machine. As long as the worker is able to stand at his lathe for the required length of time, other considerations are not important. While it is desirable to have acute hearing, it is not essential.

¹⁷ The position of outside machinist is an arduous one. It requires prolonged standing and considerable climbing of both ladders and stairs. More than ordinary blood pressure represents an undue risk in the job of outside machinist. A person with an arrested case of tuberculosis is acceptable although receiving pneumothorax treatment for tuberculosis should not be considered. Hearing acute enough to detect high-pitched sounds in machinery that is indicative of mechanical disorders is required. Since one has to walk through small passageways and climb through small openings, the height-weight relationship is important.

¹⁸ Some of the work could be done by a 1-legged individual. Most of the work in this shop is done by large power-driven machines. The duty of the millman is to feed the machine. The detection of a straining load depends on the ability to note a change in the pitch of the sound as the saw goes through the piece of wood.

¹⁹ For the most part, this position involves watching machines which do all the work except the feeding of fresh material. There is a moderately large hazard as a result of many rapidly moving machines. While a 1-eyed person could do the work, he might be more of a hazard than a person with 2 eyes.

²⁰ The shop duties are very light and require no special physical ability while the ship duties require the usual agility to do the necessary climbing onto and about the ship.

²¹ As in many other navy yard positions, the shop duties are different from the ship duties, and require different physical standards. The shop sheet-metal workers do relatively light work, usually at a bench. The ship workers must be agile.

²² The duties vary considerably. The minimum requirements for 1 group of workers are different from those of another group.

²³ The position requires normal upper and lower extremities due to prolonged standing and climbing. A flexible body trunk free of arthritis is necessary for the same reason. It is recommended that hearing must be acute in 1 ear for high pitched sound and hearing for ordinary conversation is required. Since one has to climb in narrow spaces between boilers, agility is necessary and height and weight relationship is a factor.

²⁴ A wood calker works from a staging. The work is arduous and requires good physical condition.

¹ In general, this shop requires a man of unusual physical condition. The heat and noise are intense.

² Moderate agility is required for most of the work, but there is some work which involves a little climbing.

³ Moderate hypertension is not a hazard for some of the duties, but it would be for others. The shop work demands no particular height-weight requirements, but the ship work demands agility and ability to work in small spaces.

⁴ This position involves ordinary unskilled labor.

⁵ The position of chipper and calker involves arduous duties. It requires prolonged standing and considerable climbing of both ladders and stairs. More than moderate blood pressure represents an undue risk on this job. Organic heart disease, however, that is well compensated is not contraindicated. The job requires normal extremities free of arthritis or severe varicosities, and a freely flexible body trunk. Agility is required, and a normal height and weight relationship is indicated.

⁶ Very few of the coppersmiths are required to work aboard ship. Much of the work requires heating copper to proper temperature which is determined by the shade of red to which the metal is heated.

⁷ Some of the cranes (shop) are approached only by catwalks from a balcony requiring no great agility to reach the cab. Others can be reached only by a ladder, with the obvious attendant difficulties. The former group can be handled by men with disability or amputation of one leg.

⁸ The work is arduous, not so much because of the heavy duties, but because of the need for constant attention and alertness. Two eyes are desirable, but a well-trained man with 1 eye could do the work. The eye hazard is considerable and goggles are essential.

⁹ This position requires prolonged standing and considerable climbing of both ladders and stairs. The job requires normal extremities free from arthritis or severe varicosities as well as a freely flexible body trunk. Severe blood pressure is an undue risk on this job. The height and weight relationship is important since agility is required. Marked obesity is inadvisable.

¹⁰ The position of ship electrician, as with all ship trades, is much more arduous than shop or ordinary electrical work. The work is done in very close quarters where there are many cables, pipes, and hoses. Considerable climbing is done during the course of an average day.

¹¹ The employee manipulates 5 levers and 3 foot pedals. The job requires a freely flexible body trunk. An applicant with moderate blood pressure is not an undue risk. Agility is not required.

¹² All foundry positions in this establishment are very arduous and the working conditions are unpleasant. Only persons in excellent physical condition should be permitted to work in this shop. This occupation definitely rules out placement potentialities for ex-tuberculous individuals because of the dust (sand) and fumes of molten metal. These workers must possess good near and distant vision, as they must be able to see the approaching ladle. For the same reason hearing must be normal.

¹³ The welders in the Boston Navy Yard are scattered throughout the yard. Many of them work in the shops, many on the ships. The physical requirements vary with the location of the job. In the boiler shop or in the construction shop the position is

FIRST REGION—Continued

¹ The duties vary considerably. Some of this work is very light and could be done by disabled persons while other jobs are more arduous. Vision and hearing should be fairly good, not so much because of the need in the work, but because of the hazard due to explosives.

OFFICE OF PRICE ADMINISTRATION, 55 TREMONT ST., BOSTON, MASS.

¹ This position requires considerable traveling (walking, standing, and handling of materials). The body trunk should be free in every segment as considerable agility work. This work requires a sane, level headed, emotionally balanced individual.

POST OFFICE DEPARTMENT, SOUTH POSTAL STATION, BOSTON, MASS.

The job of other requires 2 well-functioning hands and arms, though a person with 2 missing fingers could satisfactorily perform the job. Two sturdy normal legs without circulatory defects and a flexible body trunk in all its segments is required. The work requires a person to be of average height and weight. The employee should be agile. Work is in an atmosphere of dust and gases and at high elevations. The job of a substitute railway postal clerk is very exacting from the point of view of health, agility, stability, and general capability. This employee works in very close quarters on a railway car. He has to work rapidly in order to deliver the mail at the various train stops, and sort the mail in a very complex scheme while the train is in motion. He is armed. An individual with emotional instability or mental disease is not suitable for this job. This worker should have 2 good sturdy legs and have no circulatory trouble. Because of the excessive bending which is required in throwing mail in every direction into the bags and slots arthritis of the back should be prevented. At least 8 fingers are necessary. Total deficiency is not acceptable, but disqualifying. At least 8 fingers are necessary. The presence of dust in the car makes the cleanliness in one car might be acceptable. The presence of dust in the car makes the position unsuitable for persons with healed tuberculosis. Because of the necessity of reaching high to insert the mail in the proper slots, the individual should be of average height. Obesity is undesirable because the worker walks down narrow passageways in the car. Neurological disease is definitely not acceptable. Persons with hernia, gastritis, or ulcer should not be employed in this job.

FIRST REGION—Continued

TREASURY DEPARTMENT, BUREAU OF INTERNAL REVENUE, BOSTON, MASS.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC												EYES		EARS		CHEST	
				AMPUTATIONS						DISABILITIES						Blind, both eyes	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis
				Arm	Arms	Hands	Fingers	Legs	Feet	Hip or shoulder	Arm	Arms	Hands	Fingers	Legs	Feet	Back	Hips or shoulders			
0-95.97 0-95.97	Internal revenue agent ¹ Special agent ²					X	X	X	X	X	X	X	X	X	X	X				X	X

¹ This employee conducts field audits of taxpayers' accounting books and other records for the purpose of determining correct Federal income and profit tax liability. The duties require meeting the public and making important decisions and an applicant with history of mental disease or one who is emotionally unstable is, therefore, not a desirable person in this position. Moderate hypertension under medical supervision is not an undue risk in this position.

² This employee independently conducts investigations involving income and other tax frauds, and when violations of internal revenue or other statutes are disclosed, he

secures evidence for use in court. Since the duties require removal of heavy boxes containing books from warehouses and stores, one should have 2 normal upper extremities. An easily flexible trunk is required. Since training in the use of firearms is required and since one is under constant pressure meeting the public and is exposed to various temptations, an individual with a history of mental disease or one who is emotionally unstable would be a hazard in this position. Moderate hypertension will not prevent an individual from performing in this position.

TREASURY DEPARTMENT, CUSTOMS SERVICE, BOSTON, MASS.

0-95.01 0-95.01	Customs guard ¹ Customs inspector ²	X	X																X		X
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¹ The customs guard performs arduous police duty in the vicinity of docks and piers. It involves arresting law violators and seizure of contraband material. He is exposed to extremes of weather and changing atmospheric conditions. He is armed and exposed to personal danger. The position requires full physical fitness. Moderate hypertension (150/90 or 105/60) will not be disqualifying.

² This man performs arduous duties on docks, piers, and ships. He weighs material

on heavy scales. This procedure involves complex weight scales that require the use of both hands. He covers a long territory on foot and climbs on all kinds of ladders, works in a dusty atmosphere, and is exposed to extremes of weather. A normal flexible neck and back is necessary. Arthritis and varicose veins will interfere with his duties. Moderate hypertension (150/90 or 105/60) is not disqualifying.

TREASURY DEPARTMENT, OFFICE OF THE COLLECTOR OF INTERNAL REVENUE, BOSTON, MASS.

0-94.61	Deputy collector, zone ¹																				X	X
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¹ The zone deputy collector works in a subdivision of an internal revenue collection district known as a zone. Under general supervision, he is expected to canvass for delinquent income taxes, to make field verification of tax returns, to examine books of taxpayers, to assist taxpayers in filing tax returns, to serve warrants for unpaid taxes,

and to seize and sell property at public auction to satisfy taxes due and unpaid. A man with 1 normal lower extremity can perform on this job. A ability to hear ordinary conversation is ineffective. An applicant with moderate varicosities of the lower extremities and slight inactive arthritis may be accepted.

	0-22 10	0-68 71	0-32 04
Adjudicator ¹	X	X	X
Contact representative ²	X	X	X
Training officer ³	X	X	X

¹ This is essentially a desk duty position. Moderate arthritis that is inactive does not constitute an undue risk in the performance of duties. Moderate hypertension under medical supervision is acceptable. The applicant, however, must be in sound mental and emotional health.

³ This position involves considerable travel as well as desk work. Moderate hypertension is acceptable. Slight inactive arthritis or slight varicoseities will not prevent one from performing on this job. The applicant must be in sound mental and emotional health.

WAR DEPARTMENT, ARMY ORDNANCE DEPOT, BOSTON, MASS.

[illegible]

1 The duties of this position can be performed by a person with good hearing in only 1 ear. Persons with organic heart disease, fully compensated, are acceptable. Carefully selected blind applicants are acceptable for this position.

WAR DEPARTMENT, PORT OF EMBARKATION, BOSTON, MASS.

[illegible]

¹ Since this job is essentially a sedentary one, a person with moderate vericosities of the lower extremities is acceptable.

extremities is acceptable. It is not recommended that applicants with deformed digits or absent digits be recommended for this position. Well-compensated organic heart disease will not contraindicate for employment. A freely movable back without arthritis is required. Hearing sufficiently acute for ordinary conversation will suffice.

requires 2 normal upper extremities and 2 normal lower extremities free of severe varicosities or arthritis. Prolonged standing and frequent bending require an easily flexible trunk. Bilateral vision is desirable.

¶The fire fighter works in an atmosphere of extreme heat and gases. One with asthma or bronchitis is not acceptable.

¶This job is essentially a sedentary one and a person with varicosities of the lower extremities without varicose veins is not acceptable.

¶The duties of this position can be performed by a person with moderate hypertension.

¶Since this job involves prolonged standing, a freely movable back and 2 normal lower extremities without varicosities are indicated. A moderately elevated blood pressure and well-compensated organic heart disease will not contraindicate for employment. Arrested tuberculosis and even people receiving pneumothorax treatment, provided the disease is arrested, may be accepted.

WAR DEPARTMENT, WATERTOWN ARSENAL, WATERTOWN, MASS.

[illegible]

SECOND REGION

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, NEW YORK, N. Y.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC												EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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				AMPUTATIONS						DISABILITIES						Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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2-61.03	Building guard, patrol and keys ¹	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹³ These workers may sit at the bench or stand at cutting machines. The duties consist of working with a solid block of steel, outlining the desired shape on the planed surface, then making a specified impression in the metal by means of a machine that cuts away the metal to the desired depth and shape. The impression in the metal is finished by hand with files and chisels. The completed product is a die that is used in a drop-forge machine, the hot metal being forced against the die until it assumes the shape of the die. The only heavy duty involved is the movement of the block of metal from the machine to the bench. The finishing operations are light tasks, requiring considerable skill. Small dies require from light to moderate activity.

¹⁴ The work in the shop is less arduous than the outside work (on the ship) because there is more room and opportunity to sit while the press is drilling (on certain jobs). Portable drill presses are used when working on the ship. These presses are heavy and must be supported by one man while the other pushes the machine against the metal. Men who work on the ship must be able to work in small spaces. Hazards are minor cuts, wounds of legs received from long curling pieces of metal during the drilling process, and injuries from surrounding machinery. A very strong person is required to operate and carry portable presses on board ship. The men who work on board ship must have fairly good distant vision, as well as good near vision. The inside operators require excellent near vision, as they must be able to see the marks in the metal where the holes are to be drilled.

¹⁵ Color vision is necessary in wiring operations, as the different circuit wires are distinctly colored. The installation of electrical equipment on board ship is arduous, inasmuch as aid by hoists is lacking. Several men are required to lift heavy parts.

¹⁶ The environment is apparently not very dusty. An individual with healed or arrested tuberculosis would probably get along well in this shop as long as he handled the lighter duties. The duties involve fine soldering, use of light tools, and reading of wiring diagrams. The greater part of the tasks done in the shop vary from light to moderate. The heaviest activity centers about the movement of large motors by means of hoists. One-legged persons could perform many of the operations.

¹⁷ An engine-lathe operator constantly stands at his work watching the cutting of the lathe. He must have excellent near vision in order to read fine gages.

¹⁸ An engineman may either stand or sit at his controls. The work is not arduous. The environment is neither warm, nor very noisy. The vision, near and distant, must be good bilaterally.

¹⁹ The flange turner operates a machine that forms a bend (flange) at the edge of a plate by the action of a power-driven hammer. The worker sets his plates on the bed of the press, clamps them in place, and releases the hammer. The plate is manipulated until the flange is formed completely along the edge. He may set up dies to produce various angles. The work is heavy and the environment is noisy and dusty.

²⁰ This operator uses a pneumatically driven apparatus with interchangeable end pieces that cut away the rough edges on completed metallic molds. The work is arduous and it necessitates bending and squatting. The environment is dusty and noisy.

²¹ This employee performs arduous duties. He must possess 2 good legs and be able to move quickly. The work is done on a large metal platform which presents many openings for pegs that are changed in position so that the red-hot metal may be bent to the desired shape. Several men form a team so that must function rapidly by this employee. The work is arduous and the environment is hot. A sledge hammer is wielded by this employee.

²² This type of work involves arduous duty, which consists of charging the cupola with coke and weighed amounts of metal (ferrous). The fuel is shoveled by hand. The worker stands at his post. The environment is warm and dusty, and the worker is exposed to excessive light.

¹ The duties of an anglesmith consist of forming angles on metal by marking the part to be bent and placing it on the bed of the machine which is operated by a hand lever that releases a bar. The activity varies with the size of the pieces to be angulated.

² This is mostly sedentary work.

³ The duties of benchmen vary considerably from shop to shop. The types of work performed are assembly of instruments, grinding, punching, marking, filing, soldering, inspection, cleaning of parts, and optical work. In general, the activities involved are not arduous. Hard-of-hearing persons are suited for this type of work, as are older employees and those with moderate hypertension. In the optical shop, arrested tuberculosis is acceptable.

⁴ The bending-machine operator inserts sheets of metal into a heavy machine and operates switches that bring powerful pressure against the metal. The fingers are held close to the moving part. The operator stands at the machine. His "timing" must be good and he must have normal near vision. This work requires eye muscle coordination.

⁵ The shop is in a large building which is noisy and dusty. The environment is hazardous since there are many pieces of heavy machinery dispersed throughout the floor. The work in these shops is very arduous. The environment is very warm; there is dust present, and fumes are produced by the heated metal. The blacksmith hammers objects by hand. The longer feet and manipulates the hot steel in a mechanical hammer (drop forge). Hazards consist of burns (injuries sustained as result of falling steel products) and the danger of getting foreign bodies in the eyes. Although navy-yard work requires fairly good distant vision and fairly good hearing, these attributes are not essential to this trade.

⁶ This work is arduous. Men work in various awkward positions, using arms and legs continuously in climbing, bending, and walking. Loss of the last 2 fingers would not impair efficiency. The chief hazards are inhalation of dusts, minor cuts, and falling boards.

⁷ The work done in all parts of the boiler shop is arduous. The employees are subjected to a constant barrage of noise. Most of the duties are performed in standing position. The shop encompasses numerous types of different operations which require men with varying physical abilities. It is in a large building which is dusty and hazardous, as there are many heavy machines in the shop.

⁸ The brakeman couples freight cars and disengages cars by means of a large metal pin which weighs from 50 to 60 pounds. He must swing onto a freight car many times during the day. He climbs up ladders and walks between freight cars.

⁹ This employee operates a pneumatic machine and works in various awkward positions, using arms and legs continuously in climbing, bending, and walking. Loss of the last 2 fingers would not impair efficiency. The chief occupational hazard is eventual impairment of hearing. In many of these employees, audiometric tests would most likely disclose defective hearing; however, they work satisfactorily in a noisy, dangerous environment at the navy yard. On ship these employees work in close quarters, near riveters and are exposed to fumes from the hot metal. Deafness would be an asset here, as the worker would be free of the nerve-wracking noise, but at this navy yard, there is the hazard of not hearing approaching machinery.

¹¹ In order to prevent possible accidents resulting from the sudden disability of the engineman, the conductor, who is taught to operate the controls, rides in the cab.

¹² The duties consist of standing on a platform about 4 feet off the ground, watching the melting of the metal, drawing off the slag and directing the pouring of the molten metal. The tender uses a long metal bar to stir the molten mass. The work is arduous and the worker is exposed to dust, fumes, heat, and noise. Splashing metal presents the hazard of burns to the body and the eyes. The tender climbs up to his post and stands by the furnace all day.

³³ The workers are subjected to noise of the furnace, light and heat of furnaces, fumes from molten metals, hot sand, dust from sand, and temperature changes. The work is arduous and requires prolonged bending and constant use of the hands and arms. These workers must be able to see the molten metal being brought to them from a distance, and must also be able to see their own work which is close. The hearing must be normal, otherwise accidents will occur when the men carrying the bucket of liquid metal shout when running to the places where the molds are situated.

³⁴ The optical shop is a new department. All optical instruments (binoculars and range finders of all sizes) are cleaned and repaired in this section. The cleaning operations are performed at the bench. A delicate sense of touch and excellent near vision are required. There is a complete machine shop within the section. The lathes and drill presses are small models. The environment is not dusty or noisy and the activity is light. In an ordnance man disassembles ships' guns, cleans the individual parts by soaking in kerosene or other solution, rubs them by hand with emery cloth, lubricates and reassembles the parts, and tests the control mechanisms after all assembly work is completed. The duties are performed entirely by hand. Hand-operated hoists are used to move heavy parts from gun to floor. Removing corroded parts is arduous activity.

³⁵ The activities of a painter vary considerably. He may be required to paint the exterior of a new or an old ship, or he may perform duties in the shop, finishing guns, gun-control boxes, ranges, and motors. The work of the former necessitates a person who is able to climb ladders and work on scaffolds. The shop painter has less arduous tasks, with less demand for physical fitness.

³⁶ The work is performed at benches, except in the case of large pieces requiring floor space. Persons with 1 good leg or lacking distal phalanges of the hands could perform the work. The heavy work requires 2 good legs.

³⁷ A pipe coverer works in the shop and on board ship. He first measures the pipe on board ship, then prepares the specified type of covering. The latter job involves the laying out of canvas or other cloth, the piling up of insulating material (which is asbestos or amosite), and finally the sewing of the cloth. The prepared covers are bound to the pipe by special wrapping cloth which is sewn in place. In the shop this employee may sit or stand at his work.

³⁸ The pipe-fitting department operates two X-ray machines to locate defects at the joints of high-pressure pipes. The X-ray room is lead-lined. The workers move about the shop in which there are numerous large machines. Those fitters assigned to ship duties must be more agile than those working in the shop.

³⁹ This operator uses the entire upper extremities continuously. He stands at his work and also (at some machines) walks along a moving platform, and constantly watches the cutting of the metal. A person with several fingers missing could do this type of work. The major hazards in this work consist of wounds or burns caused by flying chips of metal which are intensely hot. The machines are located in the same shops in which welders, drill-press operators, and chippers are working. The operator is, therefore, subjected to a great deal of noise which eventually may impair his hearing.

⁴⁰ The puncher usually sits at a machine which is operated by pressing a foot pedal (large machines have 2 hand levers). The operator "lines up" the markings on the sheet metal with the die, then presses the pedal. The activity is not arduous.

⁴¹ This position requires good muscular development, as the work is arduous. The duties involve working around cranes, on ships and large objects. The riggers move around the yard a great deal. The chief hazards are injury from crushing or from swinging objects hanging from cranes.

⁴² The work involves heating rivets to a certain color and placing the hot rivet into a pneumatic tube which "shoots" the metal to the holder-on.

¹ The work may be inside or outside of the shop. The workers use a radiograph machine and gas-cutting apparatus that burns through metal (acetylene and oxygen). They usually stand at their work and hold the apparatus with both hands, or the apparatus is operated mechanically on an automatic sliding mechanism. At some jobs a one-legged man, using satisfactory prosthesis, could perform this work. On large jobs where one must climb, a person with 2 good legs is required.

² This employee operates a long lever that starts the hammer of the drop forge to heat against the hot metal until it assumes the desired shape. The hammer runner stands at one side of the machine, and, protected by a metal shield, assists in turning the hot metal while the hammer is operating. The environment is noisy, dusty, and warm. The operator is subjected to a great deal of vibration.

³ This employee works in the machine shop where the duties involve the lifting of large bars of metal, placing them in heating furnaces, regulating the heat, watching the pyrometers and other gages, then removing the hot metal with tongs and allowing it to cool. The work is arduous.

⁴ The work is arduous. A holder-on is part of a riveting team. All extremities must be strong, and near vision must be good. The chief hazard is a burn from a hot rivet. Like the riveter, chipper, and calker, he is subjected to traumatic deafness.

⁵ The hydroblaster performs the same duties as a sand blaster, but handles a hose carrying water under high pressure. The workers wear protective garments which include a respirator. The environment is damp.

⁶ This work involves the assembly of the gun-control boxes. Many small parts must be put together and lubricated. These employees must be able to use small tools. All work is done at the bench.

⁷ The work is performed both on ships, where the duties are more arduous, and in the shops at benches. There is considerable wood dust in the environment.

⁸ This type of work requires strong legs and arms, good distant and near vision and ability to move quickly. The environment and hazards are the same as those related to molders, except that these workers inhale more fumes than molders. The danger of the bucket "tipping over" and spilling hot metal is great. The environment is dusty (sand) and the fumes from hot metals are irritating to the respiratory tract.

⁹ The lead burner performs his duties in the shop or on board ship. This employee handles sheets of lead of varying thicknesses, bends them into the desired shape by hand and mallet, and then melts the lead into the seams by means of a small burner (which uses a mixture of hydrogen and oxygen). The individual assignments vary from lining large machine chests, to making tanks and lead pipes. Lead burners may work on board ship in close quarters where exhaust ventilation must be used to prevent inhalation of lead fumes and lead dust.

¹⁰ This is fairly light work. It requires working in a kneeling position over the templates being made of paper and light wood. Only light hammering is done. The hazards are very few and minor. The environment is good at the navy yard; there is plenty of light and air and very little dust or noise.

¹¹ The duties of a melter consist of loading the furnace with various metals, regulating the heat, and directing the pouring of the metal. The work is arduous and hazardous. Normal color vision is not necessary in operating electric and gas furnaces, since pyrometers are read to gauge the time of pouring; however, a melter operating a fuel furnace must be able to note the changing colors of the flame. There is great danger of burns from splashing metal.

¹² A milling-machine operator stands at his machine constantly watching the cut. He moves around and reaches and bends while adjusting the piece to be machined. He must possess very good near vision in order to read precision gages and to read the fine graduations of the adjustment wheels.

⁴⁴ This type of work is arduous. Good muscular development and all extremities properly functioning are required. Progressive deafness is the main occupational disease, the environment is extremely noisy and dusty, and the riveter works in close quarters. The work is in the most active part of a shipyard around a great deal of machinery, and among other workers (welders, calkers) using potentially dangerous apparatus.

⁴⁵ The sandblaster works in a closed room. He wears protective gloves and a rubber garment covering the entire body, and uses goggles and a respirator. The duties consist of directing a hose through which steel shot and compressed air issue against a metal object to remove the sand core. The environment is dusty.

⁴⁶ A saw filer works entirely within the shop. He sets up filing machines that sharpen circular saws. Carpenters' saws require hand filing at the bench. The work is only moderately arduous and it is performed while standing. A person with an artificial leg, 1 y/o, or lacking several fingers is suited for this trade.

⁴⁷ A shaper machine operator stands at his machine while it is cutting. When a new piece is to be started he moves around, bends and reaches for various adjusting parts. He must be able to read fine graduations on precision instruments.

⁴⁸ This employee stands at a large machine operated by a foot bar which lowers the cutting knife against the metal. There is no "lining up" before cutting and the work is light.

⁴⁹ A right-handed person with the last 2 fingers missing on the left hand can do this work. A 1-legged man can be used in various parts of the shop. The metals used in this department are zinc, copper, brass, stainless steel, aluminum, and galvanizing material. Work on the ships involves climbing ladders, walking along narrow passageways, and working in small spaces. The workers must possess fairly normal distant and near vision, natural hearing, and all functioning extremities.

⁵⁰ Some of these workers do assembly and others lay out work. One-legged persons and persons with amputated fourth and fifth fingers could perform many of the duties.

⁵¹ The shipwright performs heavy carpentry duties in the making of scaffolding around a ship and in building the ways for a new ship. He must be capable of arduous duty, he must be agile, and possess normal functioning extremities. The work is in close quarters.

⁵² Tool makers are expert machinists who work at lathes, milling machines, shapers, planers, and drill presses. They use fine gages and micrometers; hence, must have excellent near vision. The duties are performed while in a standing position. All operations are hand controlled and require the constant attention of the operator. The job assignments are issued on blueprints or drawings. The tool maker in the unit makes all the tools and jigs for production.

⁵³ A turret-lathe operator stands at his work, and does very little squatting. He must possess excellent near vision, since he reads a micrometer and other fine gages.

⁵⁴ The upholsterer sets springs in chairs and divans and covers them with padding over which burlap is stretched and tacked in place; the outermost material is then applied by means of tacks and bindings. The work is light. It requires measuring, cutting, and hammering.

⁵⁵ The toxic metallic and nonmetallic elements in this occupation are lead, zinc, chrome, nickel, zinc chromate, paint on steel plates, and borax. The metal particles flying off the galvanized steel plate produce burns that heal slowly; the chips may also burn the eye causing corneal ulcers. The fumes are harmful, producing "galvo-sickness" (chills, fever, vomiting, headache, cough, and difficulty in breathing). In the shop pumps carry off the fumes, but within the holds of ships the pumps cannot always be used. These workers feel the effects of the fumes markedly.

⁵⁶ This type of work is similar to that of an electric welder, except for the fact that the operation of the apparatus is different, since the flame is produced by the acetylene and oxygen and the welder must adjust the flame by its color (white or yellow).

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																		EYES	EARS	CHEST			
				AMPUTATIONS								DISABILITIES															
				Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Back	Hips or shoulders	Blind, both eyes				Industrially blind	Blind, one eye	Deaf
0-50.55	Naval inspector, cables 1	X							X	X	X																
0-50.55	Naval inspector, castings 2	X							X	X	X		X	X	X	X	X	X	X					X			
4-82.481	Naval inspector, gun mounts 3	X							X	X	X		X	X	X	X	X	X	X					X			
4-82.481	Naval inspector, guns 4	X							X	X	X		X	X	X	X	X	X	X					X			
5-08.064	Naval inspector, ordnance 5	X							X	X	X		X	X	X	X	X	X	X					X			
6-08.086	Naval inspector, quartz crystals 6	X							X	X	X		X	X	X	X	X	X	X					X			
4-98.060	Naval inspector, radio 7	X							X	X	X		X	X	X	X	X	X	X					X			
0-50.62	Naval inspector, rubber 8	X							X	X	X		X	X	X	X	X	X	X					X			
5-91.393	Naval inspector, safety belts	X							X	X	X		X	X	X	X	X	X	X					X			
4-99.432	Naval inspector, switchboard 9	X							X	X	X		X	X	X	X	X	X	X					X			
4-99.432	Naval inspector, teletype apparatus 10	X							X	X	X		X	X	X	X	X	X	X					X			
4-85.010	Naval inspector, welding 11	X							X	X	X		X	X	X	X	X	X	X					X			

¹ This employee inspects ship ladders, ship fenders, and landing craft slings, and observes company employees conducting tensile tests of slings, wire cables, and ropes. He examines all completed units for proper splicing, materials used, stitching, fastening of hardware, length of ladders, number and size of wire used in production cables, and in general observes the various operations in the shop. The work requires bending, climbing one flight of stairs, and moderate exertion.

² This employee inspects castings of pumps, water propellers, pump liners and high pressure fittings, and welding electrodes. The castings are examined for cracks and imperfections. The work involves bending. The inside and outside measurements are checked carefully. The inspector assists the company employees in setting up materials for physical tests, and witnesses all recordings. Welding electrodes are inspected for surface flaws, measured for uniformity of thickness of coating and for diameter. The duties involve light to moderate exertion.

³ This employee inspects castings of gun mounts. The inspector examines each unit for weak spots and cracks. He frequently uses a cold chisel and hammer to chip the

metal in order to ascertain the depth of an external flaw. The work involves the turning of the casting and requires moderate exertion.

⁴ This employee inspects complete gun mechanisms. All component parts (gears and shafts) are checked before final assembly. The finished unit is then inspected and stamped. The inspectors use inside and outside micrometers, calipers, depth gages, and other measuring devices. The work is light and may be performed sitting or standing.

⁵ This employee inspects gunner's quadrants, torpedo directors, and gun control boxes. The inspector is required to use micrometers, rules, height, plug and angle gages, shadowgraph, microscope, and Johansen block gages. The work necessitates keen near vision and excellent manual dexterity. The duties are light and sedentary.

⁶ After the quartz crystals have been ground, they must be calibrated at a large electrical panel by manipulating switches, turning dials and constantly watching meter readings. The work is light and requires prolonged standing.

⁷ This employee inspects pocket radio receivers and radio direction finders for the Navy. One small group of inspectors checks these instruments during the various stages of assembly. Each set is examined for mechanical defects and tested electrically by means of special meters. These employees are not required to move from floor to floor. An employee (who may have moderately severe impairment of vision) gives the completed pocket set a vibration test by placing it on a motor-driven platform. During the test he wears headphones and speaks into a microphone. This phase of inspection may be performed by an industrially blind person, inasmuch as he is not required to perform other duties and does not have to walk very far from his bench to get sets for testing. The direction finders are inspected at various stages of assembly by mechanical and electrical tests conducted by means of complicated instruments bearing dials, switches, and meters. The inspector wears headphones to listen to the performance of the set during vibration tests. All work is light and may be performed in a sitting position.

⁸ This employee inspects water, oil, and gasoline hose for ships, airplanes, and shore installations, flanges up to 6 feet in diameter, and matting. The inspectors travel from one department to another to examine completed lots. The flanges are measured and checked with blueprints. During the hydrostatic tests, the inspector must be able to hear the breaking of the threads of the fabric in the hose. The inspectors must observe results of physical tests in the laboratory. The duties require prolonged standing.

⁹ All component parts are examined for mechanical defects, and the wiring is checked.

¹⁰ All component parts are inspected along the assembly line, then final inspection is made.

¹¹ This employee inspects mufflers for exhaust systems of ships. The inspector checks this finished unit for measurements and for quality of welding, in a large, open yard. This inspector also conducts practical tests to ascertain which welders qualify for work on Navy orders. This is light work.

SECOND REGION—Continued

NAVY DEPARTMENT, NAVAL CLOTHING DEPOT, NEW YORK, N. Y.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST				
				AMPUTATIONS								DISABILITIES																
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac
6-27.071	Baster ¹																											
6-27.074	Buttonhole maker, hand ²																											
6-27.122	Cleaner, clothing worker ³	X																										
6-19.501	Cloth sponger ⁴																											
4-27.121	Clothing examiner ⁵																											
6-27.532	Coat operator ⁶																											
6-27.016	Custom cutter ⁷																											
4-27.043	Custom cutter, head ⁷																											
6-27.054	Cutter ⁸																											
6-27.054	Cutting machine operator ⁹																											
4-27.011	Marker, laundry ⁸																											
4-27.432	Patternmaker, clothing ¹⁰																											
7-57.511	Press operator, clothing ¹¹																											
7-57.901	Presser, hand ¹²																											
4-24.020	Seamstress, hand ¹³																											
6-27.532	Sewing machine operator ¹⁴																											
6-27.532	Sewing machine operator, coats																											
6-27.532	Sewing machine operator, pockets																											
6-27.532	Sewing machine operator, trouser																											
6-27.016	Spreader, clothing worker ¹⁵																											
4-26.101	Tailor, general ¹⁶																											
6-19.552	Textile inspector ¹⁷																											
7-57.511	Trouser finisher ¹⁸																											
6-27.532	Trouser operator ¹⁹																											

- ¹ This is light work and consists of applying lining to coats and stitching it in place by hand. The workers do this work in sitting or standing positions.
- ² This work is performed by persons who sew around the edges of buttonholes by hand. Good near vision as well as manual dexterity is required. This type of activity is light.
- ³ This work is performed sitting or standing. The duties consist of cutting and pulling threads from the garment after the sewing operations are completed. The physical exertion is light.
- ⁴ This type of work is moderately active. The men stand at their tasks and walk around the machines that unravel the cloth. The environment is warm and saturated with steam.
- ⁵ This employee inspects finished garments for defects. The duties are light but require prolonged standing.
- ⁶ This work is done by operators at power-driven machines. They sew together the various parts of coats, using heavy material. The activity is moderately arduous as the material must be swung around after each sewing operation. Excellent near vision is required.
- ⁷ The employee performs the duties of marking and cutting cloth for made-to-order garments. The cloth is cut by hand. The work is light but requires prolonged standing.
- ⁸ The work consists of tracing an outline on cloth, then cutting the material by machine (for mass production) and by hand (for custom work). The work is not arduous but requires prolonged standing.
- ⁹ The work consists of pushing and guiding a machine with a rapidly revolving circular knife, along an indicated outline through many thicknesses of cloth. The employee is required to stand while performing his duties.
- ¹⁰ The workers make the original paper pattern that is the model for all material to be cut for a particular type of uniform. This work is done in a room that is removed from the shop proper. The activity is very light.
- ¹¹ The work involves standing at a pressing machine which is operated by placing the material on a long ironing board, then pulling a corresponding board down (strong muscular pull necessary) against the cloth and holding the upper board in this position; then the foot is pressed against a lever which releases steam through the under board. The environment is warm and humid and the work is arduous.

- ¹² The work is performed in standing position at a bench and involves adjusting and smoothing material on a small ironing board and pressing with an iron that weighs approximately 18 pounds.
- ¹³ This worker sews buttons on uniforms while sitting. The sewing requires keen near vision.

¹⁴ These operators sit at their work (except those who stand at buttonhole-making machines). The actual operation of the machine requires good near vision and excellent eye-hand-arm coordination. The hands and arms are constantly moving as the cloth is fed into the machine. The machine itself is operated by the lateral pressure of the knee against a rubber-padded lever that raises the sewing attachment so that the material may be placed under the needle; then the foot is pressed against a pedal that regulates the speed of the machine. Under the category of sewing-machine operator belong: (1) Double-needle operators; (2) trouser operators; (3) coat operators (men); and (4) pocket makers.

¹⁵ The duties involve pushing a light carriage along small tracks laid out on a long table. The roll of cloth in the carriage is unraveled layer upon layer. The spreader walks rapidly from one end of the table to the other, keeping the layers evenly piled. He does no bending or stooping, except when placing roll on the carriage. The environment is good. There is a slight amount of dust present from the cloth.

¹⁶ The worker makes entire garment himself. His duties involve marking, cutting (hand and machine), sewing, basting, and pressing (hand and machine). He sits for some operations and stands for others. The work is light.

¹⁷ The work performed consists of examining all the cloth that is to be used in making garments. The roll of material is unraveled in a large frame before which the inspector stands. He feels the material for thickness, and he looks for discolorations and defects in the weave. The lighting for this type of duty is daylight. Excellent near vision is necessary.

¹⁸ This type of work consists of cutting and removing threads from the finished trousers. The activity is light and the workers may stand or sit at their tasks.

¹⁹ The duties consist of sewing together, by machine, the parts of trousers. Excellent near vision is required. The activity, although light, is accelerated and carried on amidst a great deal of noise and psychic strain.

SECOND REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, ATLANTIC CITY, N. J.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST				
				AMPUTATIONS								DISABILITIES																
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac
1-01. 02	Bookkeeper, post office ¹																											
1-27. 20	Cashier, money order ²	X	X																									
1-27. 20	Cashier, postal ³	X	X																									
2-82. 10	Charwoman, custodial service ⁴																											
1-37. 12	Clerk, administrative ⁵																											
1-27. 10	Clerk, foreman ⁶																											
1-27. 10	Clerk, mail service ⁷	X*	X																									
1-37. 12	Clerk, personnel ⁸	X	X																									
1-27. 20	Clerk, window ⁹	X	X																									
7-36. 250	Driver-mechanic ¹⁰																											
5-72. 020	Engineer, assistant, custodial service ¹¹	X	X																									
1-03. 02	Examiner, station ¹²	X	X																									
7-70. 040	Fireman, laborer, custodial service ¹³	X	X																									
7-81. 010	Garageman-driver, motor vehicle service ¹⁴	X	X																									
2-84. 10	Laborer, custodial service ¹⁵	X	X																									
9-49. 20	Laborer, post office ¹⁶	X	X																									
5-81. 010	Mechanic, chief, motor vehicle service ¹⁷	X	X																									
5-81. 010	Mechanic, general, motor vehicle service ¹⁸	X	X																									
1-28. 02	Messenger ¹⁹	X	X																									
1-27. 20	Secretary, local ²⁰	X	X																									
0 97. 13	Superintendent of mails ²¹	X	X																									
0-97. 13	Superintendent of mails, assistant ²²	X	X																									
6-99. 020	Superintendent, motor vehicle service ²³	X	X																									

¹ This employee assists the assistant postmaster in administrative matters. He answers telephone inquiries and has contact with persons who desire information and acts for the assistant postmaster in his absence. The latter function requires a knowledge of every unit of the post office. He types and operates a bookkeeping machine on which he prepares periodic reports of financial transactions in the entire office. The duties are sedentary.

² The cashier supervises a staff of clerks who handle money orders, postal savings, war bonds and defense stamps. He is responsible for all records of such transactions. He operates an adding machine and typewriter. The duties are sedentary but necessitate mental stability.

³ This employee prepares pay rolls, maintains time records of employees, pays bills of the post office, and handles all "postal" receipts and related financial matters with the aid of 2 clerks. The duties are sedentary, but demand excellent mental stability.

⁴ The duties of this position consist of cleaning furniture, dusting floors, and other related work for a maximum period of 5 hours daily.

⁵ This employee performs general office work in the office of the superintendent of mails and the superintendent of motor vehicles.

⁶ This man supervises the activities of the clerks and assists in sorting mail and parcel post, operates the canceling machine and dumps mail sacks when the volume of work reaches peak loads. While ordinarily his duties are light he may be required to lift heavy parcels.

⁷ The employee sorts and distributes incoming and outgoing mail and parcels and operates a canceling machine. The duties are arduous and involve prolonged standing.

⁸ This employee handles all personnel records and prepares composite, periodic reports of the activities of all clerks, carriers, and laborers. He acts as information clerk (this part of his work requires an intimate knowledge of the operation of all units of the office). He takes dictation from the postmaster and types all the latter's correspondence.

⁹ This employee works at various post office windows. The position is mostly sedentary.

¹⁰ This employee loads and unloads and drives trucks. He does not usually engage in repair work. The duties are arduous. The route hauls "are short". Persons with chronic "backache" cannot handle these activities. The drivers are exposed to all kinds of weather.

¹¹ This employee supervises the custodial force and performs manual tasks. He must be able to handle hand tools and to direct laborers in repair work.

¹² This employee examines the checking accounts of contract stations, the branch office, Navy stations and the main office. The employee rides by trolley or bus to all sections of the post-office area and walks extensively. He compiles reports of all such activities

(uses typewriter). He issues supplies (forms, paper, and twine) to all stations, orders materials needed, and maintains records of such transactions. He negotiates for the repair of letter and storage boxes. The duties are arduous and involve moving 100-pound bags of twine, 60-pound scales, and typewriters.

¹³ This employee is responsible for operation of the furnaces, including the firing of coal from the pile to the furnaces by means of a wheelbarrow, and loading the fire by hand shovel. He also has the functions of a custodial laborer when he is not tending the furnaces. The duties are arduous.

¹⁴ The duties of this position include lubrication and washing of trucks, filling gasoline tanks, replenishing oil, checking batteries, performing janitorial tasks, and driving trucks when necessary.

¹⁵ This laborer does general cleaning and repairing, and all maintenance work which does not require an expert knowledge of mechanics. He is required to operate a freight elevator. The duties are arduous.

¹⁶ The activities consist of unloading mail sacks from the tail boards of trucks, placing them on hand trucks, pushing the latter to the work floor, dumping the contents (mail or parcel post) on a long table, piling loaded mail and parcel-post sacks on hand trucks and pushing them to the loading platform to place them on the tail boards of trucks, and canceling parcel-post packages with a hand marker. The duties are arduous. This employee is subjected to variations in temperature as he travels between the loading platform (outside) and the work floor.

¹⁷ This man directs the activities of 1 auto-mechanic and 2 garagemen. He performs general repair work.

¹⁸ He checks and repairs parts of the truck that the driver indicates on his daily slip. He conducts triannual inspections of all trucks. This position requires agility (adjusts and repairs in odd positions).

¹⁹ Messengers deliver "special-delivery" letters and packages by bicycle or motor vehicle in all types of weather. The duties are not arduous.

²⁰ This post-office employee is a clerk who works at the inquiry window and is responsible for U. S. Civil Service information. He also conducts tests for civil service applicants and, in addition, answers post-office inquiries. The duties are sedentary.

²¹ This employee holds a purely administrative position. He is responsible for the delivery of city mail, transportation of out-of-town mail to trains, registered, insured, c. o. d. and "postage due" activities, motor-vehicle services, and branch office and contract stations.

²² This employee has a purely supervisory position. He spends most of his time on the work floor to see that all mail is handled efficiently.

²³ This position is administrative and involves the supervision of 10 employees. The superintendent arranges route schedules for the drivers.

SECOND REGION—Continued

POST OFFICE DEPARTMENT, GENERAL POST OFFICE, NEW YORK, N. Y.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST								
				AMPUTATIONS							DISABILITIES																			
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac
1-25.12	Adding machine operator ¹																													
4-85.040	Blacksmith, welder ²	X	X																											
4-32.100	Cabinetmaker ³																													
1-25.47	Canceled machine operator ⁴	X	X																											
5-25.830	Carpenter ⁵	X	X																											
5-25.830	Carpenter and carpenter helper ⁶	X	X																											
1-28.01	Carrier, city ⁷																													
2-82.10	Charwoman ⁸																													
2-84.10	Charwoman, head ⁹																													
0-07.13	Chief, records ¹⁰																													
1-01.42	Chief, supply ¹¹																													
2-82.30	Cleaner, window ¹²	X	X																											
1-05.01	Clerk ¹³																													
1-05.01	Clerk, assistant ¹⁴																													
1-37.12	Clerk assistant, stenographer																													
1-37.34	Clerk assistant, typist																													
1-05.01	Clerk, general ¹⁵																													
1-27.10	Clerk, loading platform ¹⁶	X	X																											
1-27.20	Clerk, parcel post ¹⁷	X	X																											
1-27.20	Clerk, record searching ¹⁸	X	X																											
1-27.10	Clerk, sorting mail ¹⁹	X	X																											
1-27.10	Clerk, sorting parcel post ²⁰	X	X																											
1-27.10	Clerk, special ²¹	X	X																											
1-27.10	Clerk, stamper ²²	X	X																											
1-38.01	Clerk, stock ²³	X	X																											
1-38.01	Clerk, stock (custodial) ²⁴	X	X																											
1-38.01	Clerk, stock (property) ²⁵	X	X																											
1-37.12	Clerk-typist and stenographer ²⁶	X	X																											
1-27.20	Clerk, window ²⁷																													
2-86.10	Coal passer ²⁸																													
1-27.10	Conveyor machine operator ²⁹																													

SECOND REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST				
				AMPUTATIONS								DISABILITIES														
				Arm	Arms	Hand	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders		Blind, both eyes	Industrially blind	Blind, one eye	Deaf
5-83.641	Conveyor system foreman ³⁰	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
0-87.10	Custodian assistant ³¹		X																							
1-18.61	Dispatcher ³²																									
1-18.61	Dispatcher, chief ³³																									
7-36.260	Driver-mechanic ³⁴		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4-97.010	Electrician and helper ³⁵		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-95.20	Elevator operator ³⁶		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-95.10	Elevator starter ³⁷		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-79.02	Engineer, inspection ³⁸																									
5-83.621	Engineer and assistant ³⁹	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5-95.320	Engineer, chief ⁴⁰	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Engineer, custodian assistant ⁴¹		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Engineer, janitor ⁴²		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7-70.040	Fireman ⁴³		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5-99.050	Foreman in charge, mechanical unit ⁴⁴		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-95.30	Freight elevator operator ⁴⁵		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7-81.010	Garageman ⁴⁶		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7-81.010	Garageman-driver ⁴⁶		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-61.03	Guard ⁴⁷		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-61.71	Guard captain and lieutenant ⁴⁸		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Janitor (large building) ⁴⁹		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Janitor (small building) ⁵⁰		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-25.62	Key punch machine operator ⁵¹		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-86.10	Laborer ⁵²		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-86.10	Laborer, custodial ⁵³		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-27.10	Laborer, fitter ⁵⁴		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Laborer-foreman ⁵⁵		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Laborer, foreman ⁵⁶		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-86.10	Laborer, hand trucker ⁵⁷		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-86.10	Laborer, mail bag packer ⁵⁸		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-18.94	Laborer, pneumatic tubes		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-86.10	Laborer, verifier ⁵⁹		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ A large number of adding machines are in the money order division. These devices are operated by pressing buttons and finally striking a long strip of metal on the machine with the palm of the hand. The work is light and is performed while sitting.

² This employee operates electrical- and gas-welding equipment, and performs blacksmith work related to machinery under the jurisdiction of the mechanical unit. The duties are performed in a shop.

³ The duties of this position involve the repair of furniture. The activities include the operation of power-driven saws, planers, and drill presses. A cabinetmaker may be required to perform general carpentry.

⁴ Mail is picked from the drops, "faced," separated into sizes and run into the canceling machines. A clerk may be stationed behind the letter drops or in other units operating canceling machines. The activity is light and may be performed by persons who have partial atrophy of the arms or amputation of several fingers of the hands.

⁵ The duties consist of repairing the woodwork of truck bodies which involves the use of hand tools (hammer, chisel, and plane) and the operation of machines (band and circular saws, planers, mortise). During the triannual inspection, he climbs on trucks and examines all woodwork for defects.

⁶ The duties of these positions include the repair of woodwork other than furniture, and the duties are arduous and require the operation of power-driven saws, planers, and drill presses.

⁷ Each carrier separates the mail that has been "screened" for his zone by a clerk, into the individual offices, buildings, apartments, and homes, and arranges the mail properly in his bag. The latter, filled, weighs approximately 50 pounds. A carrier delivers mail each day regardless of weather conditions. Various veins, hernia, heart disease (whether or not compensated), arrested tuberculosis, flat feet, and deformities or defects of the lower extremities that interfere with walking should be cause for rejection. The carriers are required to drive light trucks for pick-up mail from letter boxes, to deposit mail and packages in storage boxes, and to deliver parcels.

⁸ The duties of this position are moderate and consist of dusting furniture, sweeping and mopping floors, washing low glassware, and polishing brass and nickel. This employee works 5 hours daily.

⁹ The employee supervises and inspects the work of all charwomen assigned to a building. She does not engage in manual activities.

¹⁰ This employee supervises the clerical force and is responsible for all truck records. The duties are light.

¹¹ The employee supervises the work of the stock clerk, and is responsible for all records of incoming and outgoing materials. He may assist in issuing supplies.

¹² This is a hazardous occupation which requires full physical fitness. The employee climbs on window sills and balances himself while cleaning the glass. He must not fear high elevations.

¹³ The clerk maintains personnel records, reports from foreman, and supply records. The duties are sedentary.

¹⁴ This employee performs the usual clerical duties such as filing and sorting correspondence.

¹⁵ In 1 section of the post office several clerks are assigned to the maintenance and changing of dates of hand stamps which are used in various parts of the post office. This type of work is very light and requires fairly good manual dexterity.

¹⁶ The clerks working on the loading and unloading platforms may be assigned to weighing trucks and recording figures of same. Others may keep records of incoming and outgoing mail sacks. They may also assist in pushing hand trucks. The environment of the loading and unloading platform is damp and dusty. These activities necessitate good physical fitness (no leg or arm disabilities) inasmuch as clerks are required to handle heavy sacks.

¹⁷ The parcel-post duties involve writing, weighing, lifting of packages, and throwing into hampers. These functions vary from light to moderate.

¹⁸ Some clerks are assigned to record searching of money orders while others verify the numbers marked on the money-order books.

¹⁹ The major portion of the clerical staff is engaged in sorting mail and parcels. Various sorting schemes are utilized to separate mail into various categories. The smaller schemes may be operated sitting, but more elaborate systems require the clerk to stand. While this particular type of work is not arduous, it necessitates a constant use of the upper extremities and the eyes. The latter are particularly strained as a result of reading addresses. The position is not suitable for arrested tuberculosis cases because of the dusty atmosphere. In general, clerks who work at complicated sorting schemes must have excellent memories and mental stability.

²⁰ The sorting of parcel post is arduous inasmuch as the loaded sacks are dumped on a long table along which a conveyor moves in front of the clerks. Individual packages are sorted for addresses then tossed into large openings which are located at distances of 5 to 10 feet. The position is not suitable for employees with arrested tuberculosis, because of the dusty atmosphere.

²¹ This clerk may have no special tasks to perform other than clerical duties as outlined in the description of duties of clerk, or he may supervise the work of a staff of men. Under pressing conditions he may assist in manual work (transportation service) on the loading platform, but ordinarily the duties are light to moderate.

²² This clerk merely stamps labels attached to bundles destined for the various States.

²³ This is a sedentary position and the duties are light.

²⁴ The stock clerks handle light and heavy hardware, paint, parts of canceling machines, electrical equipment, and conveyor parts. They crate and uncrate packages and issue materials on written requests. The duties are arduous (some parts weigh 25 pounds).

²⁵ This employee issues materials on written request. He handles parts ranging in weight from light to heavy, climbs on racks and ladders, and pushes hand trucks. Barrels of oil must be tilted and rolled into proper storage places.

²⁶ At this time of this survey there was no stock clerk position. One of the employees working in the adjacent shop was assigned to issue materials as the occasion arose. The duties of stock clerk consist of handling mechanical parts (screws, bolts, and wire) and cleaning materials (soaps, powder, mops, brooms, and paper). The activities include the climbing of short ladders, pulling heavy drawers, and heavy lifting.

²⁷ The administrative force of the superintendent of the motor vehicle service is composed of clerks who perform only general duties (review and filing of records), others who type and others who take dictation. Those who check truck reports operate adding machines. The duties are sedentary.

²⁸ A clerk may work in a "cage" or small room where he performs special unit duties: (a) Postage due unit; (b) special delivery unit; (c) customs unit; (d) registry; (e) money orders; (f) stamps, envelopes, and cards; and (g) sale of bonds, Defense stamps, and postal savings stamps. These functions are light and may be performed sitting or standing.

²⁹ This employee is found only in one of the main buildings under the jurisdiction of the General Post Office. Other large buildings do not generate their own steam. The duties consist of loading coal by hand from a coal pile to a cart and carrying it to the furnace for further handling by the furnaceman.

³⁰ This clerk cuts the twine which binds bundles of letters and places the letters on conveyors. The work is light and may be performed by persons having limited physical fitness (defects of the hands, amputation of a leg, compensated heart disease, arrested tuberculosis, impaired hearing, and impaired vision).

- ³⁰ This employee is responsible for the maintenance of the conveyor systems, conducts inspections (which involve climbing ladders and walking long distances), and allocates repairs to the millwright.
- ³¹ This employee supervises a force of 100 to 400 persons and is responsible for the maintenance and operation of a large building which usually houses several Federal agencies. He performs administrative duties and also inspects the building. The duties of this position do not require more than light exertion. However, the employee must be mentally stable and alert, and capable of dealing with officials of the agencies in the building.
- ³² There are several employees in the dispatcher's office. One sits at a telephone switchboard and takes notes on calls from drivers (accidents, inability to attend to duties, and breakdown of truck). Other dispatchers issue drivers' daily schedules and collect daily records. The duties involve typing.
- ³³ This employee supervises a staff of dispatchers and arranges schedules. The duties are essentially clerical.
- ³⁴ This employee is a truck driver, he does no repair work. He may assist in the loading and unloading of sacks.
- ³⁵ The electrician repairs all electrical equipment (switches, lighting fixtures, elevator motors, fans) and wiring. He may perform his duties in the shop or elsewhere in the building. He must be able to climb ladders, use hand tools, and cut pipe for conduits. The work is arduous and requires full physical fitness. An electrician's helper assists in the manual work.
- ³⁶ The employee operates a passenger elevator but may also be required to run a freight elevator. The equipment varies with the different makes of elevators. The doors may be electrically or manually controlled. Some machines are provided with seats, others are not. Good eye-hand coordination plus mental stability are required. Normal color vision is necessary for proper performance of duties on some types of elevators but is not a requisite for operation of all types.
- ³⁷ The starter stands in the lobby of the building and signals the operator of an elevator when he should ascend by calling the number of the elevator or pressing a button which activates a buzzer in the elevator. The employee also operates the elevator.
- ³⁸ There are 2 inspection engineers under the direct supervision of the property man. The duties consist of making inspection tours of individual buildings throughout the city to check the maintenance and operation. The work involves climbing ladders and stairs and traveling extensively. They may inspect the roof of a building and also descend into the boiler room during the tour.
- ³⁹ The engineman is a general mechanic familiar with and able to perform the duties of electrician, steam fitter, plumber, ventilation mechanic, and elevator operator. In the absence of the chief engineer he supervises the work of the various mechanics. During the evening and early morning "tours" he does the work of any of the above-mentioned mechanics. The work is arduous. The assistant engineman has limited knowledge of general maintenance work. His duties are manual.
- ⁴⁰ This employee is in charge of the engineman and mechanics of various types in one of the largest buildings. He supervises and assists in repairs. All-around excellent physical fitness is necessary. Good hearing is necessary for the detection of grinding of cables and defects in motors. He must be able to climb in and out of small places in order to observe the progress of repairs.
- ⁴¹ The administrative duties of this position are similar to those of assistant custodian except that he has a smaller force and supervises the custodial work in small buildings. He must be mechanically inclined and able to perform manual work inasmuch as he performs the duties of engineman when one is absent for illness or is on annual leave. He must be able to use all types of hand tools and climb stairs and ladders.
- ⁴² This employee does janitorial and repair work in small buildings which do not have an engineman. He must be physically able to perform arduous duties.
- ⁴³ Few buildings require the services of firemen inasmuch as steam heat is obtained from a private company via underground pipes. Fireman shovels coal into the furnace, observes readings of the meters, and cleans around the boilers. The environment is hot and dusty. The duties are arduous.
- ⁴⁴ This position is found only in the four largest buildings under the jurisdiction of the General Post Office. The duties are supervisory and encompass the work performed in the various shops and on the conveyors.
- ⁴⁵ This employee operates a freight elevator, pushes hand trucks in and out of the elevator at the landings, and may be required to do cleaning. He may be called upon to run the passenger elevator. The duties are arduous. Good grasping power in both hands is required.
- ⁴⁶ This employee performs garage duties such as washing and lubricating trucks, maintaining batteries, and driving trucks when necessary.
- ⁴⁷ The guard patrols a specified area of the building for a scheduled period of days, weeks, or months, then is assigned to another post. All guards are required to work on different shifts in rotation. During the night "tour," the guard inspects assigned floors (basement doors, puts out lights, punches watchman's clock, stops strangers). The operation of elevators is also part of the duties of guard. All guards carry guns. They must be physically fit and mentally stable.
- ⁴⁸ The captain of the guards supervises the activities of all guards. In addition to his administrative duties, he tours the building during the day to observe guards at their posts. He waxes a great deal and uses the stairs frequently. The lieutenant of guards is responsible for the staff of guards working during the night and morning shifts. He has the same duties as captain and replaces him during his absence.
- ⁴⁹ The janitor (large building) is in charge of the foreman of laborers. He performs administrative duties and conducts inspections to observe the work of the laborers. He does not engage in manual activities.
- ⁵⁰ This janitor (small building) directly supervises the work of 8 to 14 laborers and performs manual work of a laborer. He must be able to perform arduous tasks.
- ⁵¹ The duties require the continuous use of the fingers and are performed sitting. The environment is extremely noisy.
- ⁵² The employee empties full sacks on tables, "breaks" them into sizes, and places them in separate hampers. The work is dusty and heavy. The employee empties loaded sacks on table and tosses bundles of mail into appropriately marked pouches which are tied, placed on hand trucks, and pushed to tables where mail is sorted.
- ⁵³ The duties of this position include cleaning floors, walls, partitions, pipes, curtains, venetian blinds, lockers, and "pigeonholes" of sorting cabinets, waxing floors by machine and moving furniture. The laborers are assigned to incinerator duty in rotation. The work is arduous and involves bending, climbing, and walking. Many laborers develop dermatitis of the hands from prolonged use of soap solution.
- ⁵⁴ This employee removes mail from hampers, "faces" it, and places it on trays.
- ⁵⁵ This employee is a low-grade fireman who also does cleaning duties in the smaller buildings generating their own heat. The duties are arduous.
- ⁵⁶ This employee supervises and inspects the work of the laborers and is directly responsible to the janitor. He does not perform manual work.
- ⁵⁷ This employee pushes loaded hand trucks from one part of the building to another. He removes loaded sacks from motor trucks to the loading platform, then piles them on hand-trucks which are pushed into the elevator and transported to appropriate site on a particular floor where the sacks are opened and dumped on a table. The mail is then separated into different classes, dumped into hampers, and pushed to other tables which feed the canceling machines.
- ⁵⁸ The laborer handles "verifying" pouches. After the pouches have been properly inspected, they are placed in a bag "weighing 65 pounds." The bags are piled into heaps.

¹⁵ The laborer "verifies" mail sacks and pouches by placing the mouth of the empty bag close to an electric light and inspecting the interior for mail. This particular activity is light and may be performed by persons who have defects of the lower and upper extremities. The environment of the bag room is very dusty.

¹⁶ The lampist washes and dusts lamps and reflectors, replaces light bulbs, and makes minor electrical repairs on switches and outlets. He assists the electrician in repairing electrical appliances. The duties are moderate in nature.

¹⁷ This employee (responsible to the foreman-in-charge) supervises all classes of workers in the mechanical unit. Only 2 buildings have foremen of this type.

¹⁸ The duties of this position involve the operation of a lathe, milling machine, drill press, grinder, and the use of micrometers, calipers, and scales. The work is performed standing and is not arduous.

¹⁹ This employee operates a machine that bores main bearings which support crank shafts. After that operation he "hand laps" the bearing by applying Prussian blue, fits the bearing and shaft together, then scrapes the "high spots." He uses hand tools and micrometers. The duties are arduous.

²⁰ This employee places the cylinder block on the grinding machine by means of a hand crane, then proceeds to smooth each cylinder. The activities of the position require the use of hand tools (wrenches, hammers), and instruments (inside and outside micrometers). The duties are arduous.

²¹ This employee operates any of the machines in the machine shop such as lathe, milling machine, shaper, grinder, drill press, arbor press, and valve grinder. He manipulates many types and sizes of hand tools and instruments (calipers, micrometers, height gauges). The duties vary from light to arduous. Lifting of the complete wheel with brake casing from the floor to the lathe is required.

²² This employee inspects all parts of the conveyor system (bearings, shafts) and replaces worn parts. The duties involve the use of hand tools. Several of these men perform machine shop activities. This work is arduous and hazardous and the environment is dusty and cool. The assistant millwright aids the machinist-millwright in the maintenance of the conveyor system and must have the same physical fitness.

²³ This employee supervises all custodial work (except that performed by the mechanical unit of the custodial service) in Federal buildings, under the jurisdiction of the post office department in the boroughs of Manhattan and Bronx. The position is purely administrative, and sedentary in nature. The employee may conduct inspection tours of buildings. He holds numerous consultations and must be able to answer the telephone and simultaneously write notes.

²⁴ The employee cleans, polishes, and makes minor repairs to marble floors, marble wainscoting, stairs, rails, banisters, marble columns and pilasters. Only the main buildings have marble polishers. The laborers usually perform the same duties in smaller establishments. The duties are not arduous. The materials used for polishing may produce dermatitis.

²⁵ The duties of this position consist of cleaning and maintaining women's toilets, rest rooms, and coat rooms.

²⁶ The mechanic recovers the individual parts of a motor after they have been repaired or cleaned and assembles them on an engine stand. The exterior surface is then painted. The motor is run for several hours for final test. The work involves the use of numerous types of hand tools.

²⁷ The duties of this position involve the maintenance of the canceling machines. Minor repairs are performed at the side of the machine, while major repairs are performed in the repair shop. The mechanic stands at this work and uses hand tools. The work is light. Frequently, he is sent to a station that does not have a mechanic of this type.

²⁸ This employee is in charge of the mechanical force. He has technical and administrative functions and actually takes part in manual tasks. The duties are not arduous.

⁷³ This mechanic repairs all clocks in the general post office. He works at a bench and uses small hand tools. The duties are light.

⁷⁴ This mechanic is responsible for the repair and maintenance of electrically operated doors in garages. He climbs ladders, uses hand tools and lifts heavy parts. The duties are arduous. The principal mechanic performs supervisory as well as manual functions.

⁷⁵ The duties of the position necessitate the performance of repair work on the upper end of an elevator or on the under surface in a pit. The employee uses hand tools, climbs into small spaces and works many floors above the street level. Good hearing is necessary in order to detect grinding of gears, cables, and guide rails.

⁷⁶ The mechanic removes worn or defective parts and replaces the latter with new or repaired units. Some mechanics disassemble the motors while others adjust the brakes, but all must be familiar with every mechanical part of the trucks. The duties are arduous and involve bending, lying on the floor, and squatting. The mechanics must be able to drive a truck.

⁷⁷ This employee is an all-around maintenance man who does cleaning, repairing of various types, painting, and carpentry. There are only a few such persons in the custodial service of the general post office.

⁷⁸ This employee assists the millwright in his activities. He is in a grade between general mechanic's helper and millwright. The physical fitness factors of this position are similar to those of millwright.

⁷⁹ The duties include oiling, greasing, cleaning, and assisting in repair of the equipment (see superintendent, mechanical unit). The employee climbs ladders, creeps under low conveyors, and breaks up "block" caused by pouches or packages. The work is arduous and hazardous. The environment is dusty and cool. He often assists the millwright, electrician, or carpenter. The employee may be sent to any station in Manhattan or the Bronx to repair machinery.

⁸⁰ The duties involve repairing and testing of generators, starters and distributor heads. All parts are cleaned with kerosene. The duties are performed standing. Numerous types of hand tools are used. The work is not arduous.

⁸¹ Six employees of this type are employed in the general post office. Each employee supervises the various mechanics in each section of the mechanical division (overhaul, triannual inspection, and service department). The duties are supervisory and technical but may involve manual operations.

⁸² This employee repairs all types of letter boxes and performs sheet-metal work. He uses drills and hand tools, paints by means of spray guns, and applies stencil work. He also inspects and repairs the mail chutes of all office buildings under the jurisdiction of the general post office. The duties vary from light to moderate.

⁸³ This employee supervises the activities of the elevator mechanics and helpers and often assists in the manual work. He must be physically fit to join his crew on or under the elevator.

⁸⁴ This employee repairs scales of all sizes. The duties vary from light to moderate. The mechanic removes all parts of the truck which need repairing, and replaces the parts with new or repaired units (wheels, radiators, engines, steering gear). The duties are arduous and require a great deal of bending, squatting, reaching and lifting.

⁸⁵ This employee is responsible for the repairs of typewriters in the general post office. His activities are light. The work necessitates excellent manual dexterity and good near vision.

⁸⁷ The mechanic regulates the ventilating system to provide the proper temperature and moisture in the building. He makes repairs of any part of the equipment (this includes sheet-metal work). The duties are arduous and necessitate the frequent climbing of ladders.

⁸⁸ The duties consist of lubricating and cleaning motors, engines, elevators, and other mechanical and electrical equipment, and assisting the engine-room employees in the care, maintenance and repair of mechanical and electrical equipment. The employee must be able to climb ladders and "squeeze" into narrow spaces. The duties are arduous.

⁸⁹ The duties involve minor painting, plastering, and glazing. The work is light.

⁹⁰ The employee is responsible for the maintenance and repair of the water systems in the main buildings. He uses heavy hand tools, cuts pipe by hand, threads and installs it. The duties are arduous.

⁹¹ This employee supervises the work of the pneumatic tubes operators. He does not perform manual tasks.

⁹² The duties involve lifting outgoing loaded cylinder (36 pounds) on to the pneumatic tubes machine which automatically drives it through underground pipes; lifting incoming loaded cylinder from the machine; opening the cover (by turning a small handle) and emptying contents on a conveyor belt; and rerouting the incoming cylinders from other stations into the proper outgoing tube leading to the designated station (indicated by name on slip of paper fastened to the cylinder).

⁹³ The duties involve the repair of truck radiators. Soldering irons and gas torches are used.

⁹⁴ The duties involve placing batches of cards in numerous individual spaces, then setting the machine in operation. The sorted cards are then removed and arranged in a container. The room containing these machines is noisy. Employees with arrested tuberculosis would not be acceptable because of the dusty atmosphere.

⁹⁵ The employee is responsible for the maintenance of the heating system. He repairs radiators and replaces pipes. The duties are arduous.

⁹⁶ The employee supervises all phases of the work of the mechanical unit in the general post office and also in the field. He visits buildings in any part of the city to appraise certain types of repairs. His duties are administrative and technical in nature.

⁹⁷ This employee supervises a staff of approximately 200 persons. He is responsible for the maintenance of conveyors and canceling machines, and the repair of clocks, typewriters, furniture, scales, and letter boxes. The duties are administrative and technical in nature. He may climb ladders to investigate problems which his assistants cannot solve. The superintendent is subjected to dust and variations in temperature (some parts of the building are cool).

⁹⁸ The duties of this position are administrative.

⁹⁹ The duties involve field supervision to investigate accidents, volume of mail handled at stations, "bottle-necks" in transportation of mail, and submission of reports. He drives to stations under his jurisdiction.

¹⁰⁰ The work is performed standing and involves the placing of batches of cards in the machine (electric and automatic). The environment in this section of the money-order division is extremely noisy.

¹⁰¹ This position requires good eye-ear muscle coordination and mental stability. The duties are light. The Post Office Department does not employ relief operators in New York City. The chief operator has the same duties as the telephone operators plus administrative supervision.

¹⁰² The duties consist of repairing rents and worn portions of inner tubes and tires. The activities vary from light to moderate (lifting tires from floor to work bench).

¹⁰³ The employee cleans small parts in kerosene. The larger parts are placed in a tank containing a hot solution. A hot-water hose is used to remove superficial dirt. A hand crane is used to move heavy parts. The duties are arduous and the environment is damp.

SECOND REGION—Continued

WAR DEPARTMENT, PICATINNY ARSENAL, DOVER, N. J.

Code	Title of position	ORTHOPEDIC																				EYES	EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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all of the time. When the assignment is completed they may have entirely different tasks.

¹⁶ This operator places a screen die at the bottom of the machine chamber, then loads the machine with a block of explosive material and starts the press which forces the material through the screen die (to remove impurities); the material then emerges as "macaroni-like" strands. (The extruded material is then fed into a press for final blocking.) The work is arduous and requires a great deal of bending and turning of wheels.

¹⁷ The duties consist of loading the machine with the material that has undergone the mixing operation, then starting the macerator and allowing it to run for a definite time. The mixed ingredients then are scooped into containers. This work is arduous. The environment contains ether vapors and the work is repetitious and hazardous.

¹⁸ A maintenance machinist in the operations division uses the lathe, drill press, grinder, milling machine, shaper, and hand tools to repair or replace parts of equipment used at the arsenal. The duties are performed while standing. Each assignment is an individual task that is handled entirely by 1 machinist. Mass production is not part of the activities of this position. The activity varies according to the particular task at hand, but moderate physical exertion is usually required.

¹⁹ The designation, as used at this arsenal, indicates an employee who can act as welder, blacksmith, machinist, or sheet-metal worker. As the term is customarily used it signifies one who sets up shafts, pulleys, and machinery. The work is arduous and varies according to the particular assignment.

²⁰ The duties consist of lifting and dumping heavy containers of nitrocellulose into a churn in which the nitrocellulose is mixed with certain chemicals. At the end of a fixed time the material is loaded into cans weighing 125 pounds. This work is arduous and the environment contains ether vapors. One operator may attend to several machines.

²¹ This work involves the lifting of completed shells onto small trucks, which are pushed to designated places for storage or shipment of the shells (trucks or freight trains). The employee must be strong.

²² The picking operator stands at his work in a humid atmosphere containing acid fumes. The operator lifts and places metallic objects into vats of acid cleaning solutions by means of books and then places the objects into vator vats. A 1-eyed operator is physically able to perform this type of work, but is not recommended as there is danger of acid splashing into the eyes. The work varies from moderate to arduous depending on the size and weight of the objects to be cleaned.

²³ This operator places containers of strands (from graining operation) at the ends of metal troughs, then takes each strand, feeds it into the machine through a guide hole and starts the machine which cuts the material to the desired size. The small pieces fall into a basket which is emptied periodically into a large container. The work requires moderate activity. Employees must be tall, in order to reach across the machine in untangling strands.

²⁴ This employee is a laborer whose duties consist of pushing a truck containing powder from one operation to the next. He loads and unloads the powder at each stop. This work is arduous.

²⁵ The duties consist of placing weighed amounts of nitrocellulose in a container, carrying the latter to a large hydraulic press and dumping the material into the cylinder. The worker then turns the necessary wheels which start the press, watches the dials until the operation is completed, and then manipulates the controls again. The compressed block weighs 25 pounds. It is placed into large boxes for transport to the next section. The press and floor are cleaned after each operation. This work is repetitious and moderately arduous.

²⁶ The operator sits at his work and controls the process by pressing a lever with his foot.

²⁷ The painter at the arsenal works in a shop where stenciling or outline lettering on wooden panels or doors is done; usually the sign painter stands at his work, uses hand brushes or operates a spray gun. These duties may be performed by a 1-legged man wearing a suitable orthopedic appliance.

²⁸ The employee operates automatic-screw machines into which is fed specified wire; the finished coils are measured and tested.

²⁹ This operator mixes graphite and tetryl by pouring definite amounts of each into a machine equipped with a hopper; after allowing the latter to run for a scheduled time, the mixture is scooped into boxes that are weighed. The work is arduous.

³⁰ This operator allows a specific amount of benzene to run into a dissolving tank; heats the solution by running steam into the outer jacket of the tank; dumps measured amounts of tetryl into the tank and starts the agitators to mix the ingredients. The work is performed standing; it requires timing of valves and lifting of containers of tetryl to the tank.

³¹ The operator mixes weighed amounts of ingredients for the formation of tetryl, subjects the solution to heat (steam) for a specified period, then cools and allows the solution to run out into pans. The operator must turn wheels, watch dials and record readings. The hazard of tetryl poisoning is present. The work involves moderate activity.

³² This operator stands at the machine into which is placed the object to be threaded, then starts the operation which is automatically controlled. The work involves moderate activity, is repetitious.

³³ This operator stands at a machine in which cutting tools of various types, including drills and reamers, are sharpened by revolving grinding wheels. These duties are light and require constant checking of dimensions by micrometers. A 1-legged person (wearing an orthopedic appliance) is able to do this work. Although a 1-eyed person can operate the machine there is danger of metal or grindstone particles entering the eye. The duties require a fairly high degree of skill in manipulating the controls properly.

³⁴ The tool-and-bath tempers all tools, springs, and special parts in electric and gas furnaces. (Cyanide baths are used for specific types of work.) This type of position requires the use of the arms and hands for steering and moving levers, and the legs and feet to operate the pedals. The hands do not have to be intact and an artificial leg will not interfere with efficiency. Inside the warehouses the drivers are exposed to exhaust fumes.

WAR DEPARTMENT, NEW YORK PORT OF EMBARKATION, NEW YORK, N. Y.

Code	Title of position	ORTHOPEDIC														EYES	EARS		CHEST			
		DISABILITIES															Blind, both eyes	Blind, one eye		Deaf	Hard of hearing	
		AMPUTATIONS							DISABILITIES													
		Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders
4-25. 41	Addressograph machine operator ¹						X	X	X	X	X	X										
5-88. 664	Angle machine operator ²						X	X	X	X	X	X										
5-81. 010	Automobile mechanic ³						X	X	X	X	X	X										
7-81. 010	Automobile mechanic helper ³						X	X	X	X	X	X										
0-88. 02	Captain, tugboat ⁴						X	X	X	X	X	X										
5-25. 830	Carpenter ⁵						X	X	X	X	X	X										
9-65. 98	Catcher, laundry ⁶						X	X	X	X	X	X										
9-65. 98	Catcher, warehouse ⁷						X	X	X	X	X	X										
7-57. 002	Checker, receiving laundry						X	X	X	X	X	X										
1-1. 01. 42	Checker, warehouse ⁷						X	X	X	X	X	X										
7-57. 001	Checker, shipping, laundry ⁸						X	X	X	X	X	X										
7-57. 012	Classifier, laundry ⁹						X	X	X	X	X	X										
9-48. 10	Deckhands ¹⁰						X	X	X	X	X	X										
8-78. 083	Drill press operator, sheet metal ²						X	X	X	X	X	X										
1-28. 22	Duplicating machine operator ¹¹						X	X	X	X	X	X										
2-95. 10	Elevator dispatcher ¹²						X	X	X	X	X	X										
9-57. 21	Extractor man ¹³						X	X	X	X	X	X										
9-57. 21	Feeder, laundry ¹⁴						X	X	X	X	X	X										
2-63. 10	Fire fighter ¹⁵						X	X	X	X	X	X										
2-86. 10	Handyman ¹⁶						X	X	X	X	X	X										
2-86. 10	Laborer, unskilled ¹⁷						X	X	X	X	X	X										
4-80. 020	Lay-out man, sheet metal ²						X	X	X	X	X	X										
9-57. 21	Loader, laundry, laborer ¹⁸						X	X	X	X	X	X										
9-49. 10	Loader and unloader ¹⁹						X	X	X	X	X	X										
4-75. 010	Machinist, automobile repair shop ²⁰						X	X	X	X	X	X										
4-75. 010	Machinist, marine machine shop ²¹						X	X	X	X	X	X										
0-88. 20	Marine engineer, water transportation						X	X	X	X	X	X										
7-57. 021	Marker, laundry ²²						X	X	X	X	X	X										
7-71. 110	Miller, marine water transportation ²³						X	X	X	X	X	X										
2-61. 04	Patrol officer, customs unit detail ²⁴						X	X	X	X	X	X										
9-53. 01	Patrol officer, LaGuardia Airport ²⁵						X	X	X	X	X	X										

SECOND REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST							
				DISABILITIES																											
				AMPUTATIONS								HIPS OR SHOULDERS								Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis					
Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders													
1-10, 95	Patrol officer, law enforcement division ²⁶	X	X																												
0-32, 93	Patrol officer, pistol range ²⁷																														
0-95, 01	Patrol officer, port patrol division ²⁸	X	X																												
0-95, 01	Patrol officer, seizure room detail ²⁹	X	X																												
0-95, 04	Patrol officer, special ³⁰	X	X																												
2-61, 03	Patrolman ³¹																														
5-86, 310	Photostat operator ³²																														
0-95, 01	Port patrol officer ³³	X	X																												
0-95, 01	Port patrol officer, airport detail ³⁴	X	X																												
2-61, 04	Port patrol officer, cashiers detail ³⁵																														
0-95, 01	Port patrol officer, enforcement division ³⁶	X	X																												
0-95, 01	Port patrol officer, port patrol division ³⁷	X	X																												
0-95, 01	Port patrol officer, pistol range detail ³⁸	X	X																												
0-32, 30	Port patrol officer, seizure room ³⁹	X	X																												
0-45, 01	Presser, hand, laundry ⁴⁰																														
7-57, 501	Presser operator, laundry ⁴¹																														
7-57, 512	Puller, laundry, laborer ⁴²																														
9-57, 21	Punch-press operator, sheet-metal ²	X	X																												
6-88, 622	Shearer, sheet-metal ²																														
6-98, 654	Tabulating machine operator ⁴²	X	X																												
1-25, 64	Taper, ship ⁴³																														
9-65, 47	Taper, shop ⁴³																														
9-65, 47	Telephone operator ⁴⁴																														
1-42, 32	Tractor and lift operator ⁴⁵	X	X																												
7-36, 510	Truck driver ⁴⁶	X	X																												
7-36, 250	Trucker, hand ⁴⁷	X	X																												
9-49, 10	Tumbler operator, laundry ⁴⁸																														
9-57, 21	Washman laundry ⁴⁹																														
7-57, 251	Welder, sheet-metal	X	X																												
4-85, 020	Wrapper, laundry ⁵⁰	X	X																												
9-57, 21																															

- ¹ The operator sits at the machine. He inserts a group of embossed plates in a grooved space, adjusts the operating surface for the size of the work to be done, tests the machine and sets the motors in motion by stepping on the appropriate foot pedal. The activity is light.
- ² This employee repairs metal lieboats and makes metal sinks.
- ³ This employee repairs trucks used by the motor highway division. The duties consist of overhauling engines and other parts of the trucks such as the clutch and transmission. The duties may be performed by persons with 1 good leg and amputation below the knee of the opposite lower extremity. The lifting of heavy objects from the truck to the bench is involved.
- ⁴ The duties of this position involve steering the boat, keeping watch on all sides for other boats, and signaling the engineer as to control of speed and direction of motion (forward or backward). A captain requires excellent distant vision, fair near vision, and 1 intact hand (the other may be lacking the last 2 fingers). The activities are not arduous.
- ⁵ These employees make first-aid boxes, desk file boxes, and other wooden equipment. They must be capable of operating various types of machines usually found in a carpenter shop (planers, slotters, band saws) and of using hand tools (hammer, plane, saw, drill, chisel, file). The work is performed in the shop and also on board ship (repairs).
- ⁶ The catcher receives the ironed articles at the opposite end of the ironing apparatus. The duties are light.
- ⁷ This employee checks the quantity and type of materials received or shipped against a copy of the written order. The duties are light but occasionally involve the moving of boxes. The duties are performed while standing, involve some bending, and may expose the worker to dampness and cold. The environment is dusty. Persons who have had 1 leg amputated (compensated by satisfactory prosthesis) or have 1 intact hand and grasping power in the other hand, may serve as checkers.
- ⁸ The shipping checker reassembles the original contents according to the list compiled by the receiving checker.
- ⁹ This employee sorts the soiled garments after they have been checked and marked. The activities are moderate and may be performed sitting or standing.
- ¹⁰ This employee performs manual work on board tugboats. His duties consist in fastening hawsers and ropes to piers or tugs, cleaning decks, and watching for floating debris.
- ¹¹ This employee operates the multilith, multigraph, and mimeograph machines. He inserts and secures the plate, master copy, or stencil bearing the desired printing, and adjusts the various parts of the machine (ink flow, speed, and feeding of blank sheets). The operator stands by the machine while it is operating. The activity is light. Following physical disabilities are compatible with the satisfactory performance of duties. Impaired distant vision, partial disability of 1 hand, amputation of 1 leg or foot compensated by satisfactory prosthesis, residual paralysis of both legs, and moderate hypertension.
- ¹² This employee is directly responsible for operating the elevators in a large warehouse, by remote control. The employee sits at a desk, receives telephone requests to move a certain elevator from one floor to another and carries out the orders by moving small levers and pressing buttons. The progress of the elevator is observed by the illumination of red and green lights situated on a panel.
- ¹³ This employee places the dripping garments (from the washing machine) into a machine which removes the water by centrifugal force. The garments are then removed and placed in a hand truck. The work is arduous.
- ¹⁴ A feeder places the laundered article (usually "flatwork") into a "roller" ironing machine which consists of a series of varied cylinders (steam heated). The duties are light.
- ¹⁵ This position requires a well-proportioned person with good vision and hearing, capable of performing arduous activities. The duties include driving the fire truck, setting up fire equipment, putting out fires, inspecting the grounds for fire hazards, and keeping the trucks and equipment in excellent condition. Such work exposes the employees to smoke, all types of weather, and hazardous undertakings. An employee with several fingers missing can perform all duties satisfactorily.
- ¹⁶ This employee makes boxes and crates, packs materials, runs lifts, does porter work and performs other miscellaneous duties that range from light to arduous work. Lack of, or disability of, the last 2 fingers of both hands, or amputation of the foot or forefoot below the knee (compensated by satisfactory prosthesis) will not impair efficiency.
- ¹⁷ This employee performs miscellaneous, arduous jobs such as ditch digging, road building, loading and unloading and porter work.
- ¹⁸ A loader places the soiled dry garments into the washing machine. This work requires a great deal of bending.
- ¹⁹ These employees load and unload boxes, bags, and barrels off and on to trucks, freight cars, and barges by hand. The duties are arduous and expose the employees to all types of weather when working on the receiving and shipping platforms of the warehouse.
- ²⁰ This employee performs his duties in a special truck equipped with a lathe, drill press, grinders, bench, and all types of tools for repairs of automobile parts. An employee with 1 partially disabled hand (amputation or deformity of the last 2 fingers) or with an amputated leg compensated by a satisfactory prosthesis is suitable for this work.
- ²¹ This employee operates lathes, drill presses, milling machines, shapers, grinders, and may perform bench duties, depending on the type of repair work.
- ²² This employee stamps unmarked articles by inserting 1 end of the latter into a small marking machine that is set to imprint the desired identification code. The activities are light.
- ²³ The duties of this employee involve the oiling of engines, auxiliaries, and other motors and assisting the engineer in repair work. An oiler must be able to climb stairs and enter small spaces. A person with 1 intact hand and amputation of the last 2 fingers on the other hand can serve in this capacity.
- ²⁴ This man is armed and guards valuables. He intercepts persons attempting to enter office without proper identification. He is also required to help fill and carry heavy bags.
- ²⁵ This employee checks personal effects of all passengers and boards planes in search of contraband. He must drive a car to cover all points of embarkation. He is exposed to variable weather conditions, dust, noise and reverberations.
- ²⁶ The officers are required to board ships via Jacob's ladder and gangplanks. They thoroughly inspect the ships, seize contraband and make arrests. They must climb ladders and get through narrow passageways. They are exposed to sudden weather changes, fumes, and dust. Full physical fitness is required.
- ²⁷ This employee instructs new officers in the use of firearms. He removes lead from cement floor after each target practice session with a mallet and chisel, keeps the room clean, oils the motor that operates target and keeps revolvers in good condition. He is exposed to gunfire noise, powder dust, and lead absorption.
- ²⁸ This position requires full physical fitness. The officers intercept passengers and crewmen leaving ships and inspect their personal effects. They must make arrests and in doing so may be subjected to assault. There is considerable walking and prolonged standing involved and they are subjected to sudden changes in temperature, dust, and fumes. They often board ships to search for contraband.
- ²⁹ Prolonged standing is involved. This employee is responsible for opening and closing the vault, protecting property, watching laborers pack and unpack material, and checking all incoming and outgoing packages.

³⁰ This is mainly a clerical position but may be called upon to act as a patrol officer in case of emergency. He keeps a record of all material seized, its disposition, and does all other paper work. He does some lifting of light to moderate weights.

³¹ The duties of a patrolman vary. They include guarding the main gates (inspecting passes), escorting persons from one part of the base to another (involves climbing of stairs), standing watch at entrances and exits of various buildings (inside work), and handling crowds at the labor board office. The patrolmen serve in all these capacities in rotation. The outside duty exposes these employees to all kinds of weather. The activities of this position are light (standing, walking and climbing stairs) ordinarily, but in an emergency they may be arduous (handling unruly persons).

³² This employee must excel as a photostat operator, but may be assigned the duties of a power trimmer when the amount of photostat work is low. The duties of the position include preparing the solutions and carrying boxes of chemicals. A photostat operator works on a raised platform (12 inches high). He places drawing or printed matter in a case which is inserted into the machine, moves hand controls (requires strong grip), exposes the photographic paper, cuts the proper length of the latter after exposure, rolls it into developing fluid, transfers it to a "hypo" bath, rinses it in water, and finally dries it in a heated device.

³³ The duties are those of an armed guard who protects valuable articles and handles heavily loaded bags. The incumbent must be capable of performing arduous activities and undergoing prolonged standing.

³⁴ This officer watches passengers *leaving airplane*; he inspects baggage for inspector's label (colored) and stamps latter if satisfactory before passengers are allowed to leave the customs office. He is exposed to the cold of winter, heat and sunlight of summer, rain, and wind. The officer is also subjected to the noise of airplane motors and dust raised by airplanes. On occasion he boards planes to search for contraband. Officers detailed to this post must drive a car that is used to travel to various parts of the airport and to neighboring air fields.

³⁵ The duties of this position are considered to be moderate and involve the protection of money in the cashier's office, collection of money held by inspectors stationed throughout the port, and furnishing information to persons entering the cashier's office. The guards must travel to posts by available transportation, then walk the remaining distance.

³⁶ The guard assigned to this detail maintains an inventory of all revolvers and handles the disposition of seized materials. The duties involve "paper work," telephone calls, lifting packages (not heavy), standing, sitting, walking, and writing. The position is essentially a clerical one, involving light to moderate lifting.

³⁷ The duties involve moderate exertion and entail the handling of pistols, ammunition, and targets, the cleaning of the room after practice, and the preparation of reports. The incumbent must be emotionally stable, alert, and patient.

³⁸ The duties are those of an armed guard who protects seized property and performs clerical duties related thereto. The activities are considered moderate in nature.

³⁹ This employee presses garments that require hand ironing. Several employees press sheets, and team together to work on 1 part of the garment and pass it on to the next presser. This type of work requires moderate exertion.

⁴⁰ This employee stands at a pressing machine, inserts the garment on the ironing board, steps on a lever that pneumatically lowers the movable board and then steams the garment. Unlike the older machine which required arduous exertion to operate, these new machines require light exertion.

⁴¹ A puller removes the dripping garments from the washing machine and places them in a hand truck. This activity is arduous.

⁴² This operator first sets the machine to perform a particular function, places the cards to be analyzed in a holder, and then starts the machine. Persons with various defects as mentioned under multilith, multigraph, and mimeograph-machine operator may safely handle the tabulating machine.

⁴³ The duties of this position consist in sealing all openings and cracks in trucks and other motor-driven equipment that is to be shipped overseas to prevent the corrosion of the metallic parts by sea water. All glass panes are first covered with a well-fitting wooden panel which is held in place with special tape, then the entire panel is smeared with a waterproofing chemical. This work is performed in a shop or on board ship (more hazardous) and involves a great deal of climbing and bending.

⁴⁴ This employee sits at his work. He inserts and pulls plugs into and from the proper openings, and speaks into a microphone. He wears headphones. These duties require good hearing and clear speech. Persons with immobilization of the spine are capable of performing the duties of this position efficiently.

⁴⁵ These operators drive small tractors (electric or Diesel) some of which are fitted with 2 protecting arms in front, which may be lowered or elevated by power from the engine. These latter vehicles are lift tractors. The arms fit into grooves built in the loading platforms. The ordinary tractors are used to pull trains of loaded platforms.

⁴⁶ This employee operates a heavy truck (often trailer truck) in all kinds of weather over long distances. The employee can drive safely with 1 intact hand and 1 partially defective hand, and 1 good leg and 1 amputated leg with satisfactory prosthesis so that pressure may be made against the foot pedal. The work varies from light to arduous.

⁴⁷ This employee pushes a loaded hand truck from one point to another. The work is arduous.

⁴⁸ This employee places damp laundered articles (handkerchiefs, towels) into a machine (tumbler) that "buffs" them by means of an air blast. The activities are light.

⁴⁹ This employee controls the washing process by turning valves to admit water, soap, and chemicals into the machines. The duties are light.

⁵⁰ This employee wraps the reassembled clothing of each client after they have been checked by the shipping checker, and places them on shelves for delivery. The activities are moderate.

SECOND REGION—Continued

WAR DEPARTMENT, SIGNAL CORPS PHOTOGRAPHIC CENTER, NEW YORK, N. Y.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES	EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				AMPUTATIONS												DISABILITIES					Blind, both eyes	Industrially blind		Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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¹ The duties consist of making drawings that differ slightly from each other. This work is performed sitting.

² This employee paints scenery for a "set," or prepares miniature "sets." All work is performed sitting. The activities are light.

³ The duties of this position require excellent binocular vision (including keen color perception) and good mental coordination. The activities range from light to moderate, and entail a great deal of standing, walking, and bending. Adjustments of the camera are made by turning various wheels. Some cameras require hand power to "run" the film. A person with an amputated lower extremity below the knee (with satisfactory prosthesis) could perform the duties.

⁴ This employee photographs the individual drawings prepared by the animators, numbers them in consecutive order, and later photographs them with a motion camera. He adjusts the distance of the camera from the drawings by moving wheels. The duties range from light to moderate.

⁵ This employee uses hand tools (hammer, chisel) and operates various wood-working machines (hand saw, planer) to construct objects needed on the "movie" sets, from drawings or sketches. The duties are performed within the shop and require moderate exertion.

⁶ This employee builds scaffolds, floors, and platforms. He is required to work high above the floor in setting up supports for lights. The duties are arduous.

⁷ This employee sits at a desk, answers the telephone, writes messages, gives passes, and directs visitors to the desired offices. The activities are light.

⁸ This employee checks outgoing items, wraps them and packs them in cardboard boxes. The work involves light to moderate exertion.

⁹ This employee is in charge of a room containing various articles needed on "movie" sets. He selects the requested items and issues them to the stage grip (laborer). The work entails moderate exertion.

¹⁰ This employee "runs" off the film, listens with earphones, and observes that the action follows the script. He sits at a table and manipulates a foot pedal and hand controls (using both hands). This type of work requires good hearing and vision (near and distant). The duties are light.

¹¹ This employee sits as he operates a hand-driven machine which "runs" the film from one roll to another. The film is scrutinized through a large lens and is passed over the hand to feel for defects. Defective parts are cut out with hand scissors. The duties are light.

¹² This employee repairs electrical fixtures of various types (switches, plugs, switchboards, spotlights). He uses hand tools (pliers, file, screw drivers, soldering iron). He spends most of his time in the electrical shop. The activities require moderate physical exertion.

¹³ The employee moves heavy spotlights to desired positions on the floor and on high scaffolds, and connects all lighting fixtures to a master switchboard which is operated by pushing small levers. A pulley and rope are used to hoist the lights to the framework high above the "movie" set. The duties are arduous.

¹⁴ The employee attends a complicated switchboard which connects with all the studios. He also analyzes sound "tracks." The duties require good near vision.

¹⁵ The inside duties consist of sitting at a desk and checking passes of persons entering and leaving the building. The outside duties involve patrolling the grounds and guarding entrances and exits. The employees rotate at these activities. The work requires very little exertion, but guard must be capable of handling emergencies.

¹⁶ This employee sets type in a heavy metal holder and carries the latter to a printing press which is electrically heated. At the proper time the material to be printed is placed in the machine, and a heavy handle is pulled with both hands. The work is arduous.

¹⁷ The duties consist in tracing drawings with India ink by placing a blank sheet of paper over the original sketch which is resting on a piece of light blue glass illuminated from behind. The work is sedentary.

¹⁸ The employee spends part of his time in a dark room where he opens cans of film (prepared by private contractors) and inserts the roll in the camera's magazine. However, before this operation, he must thoroughly clean the interior of the magazine by means of an air hose to prevent particles of film from attaching and scratching the new film. The officer-in-charge did not feel that the sense of touch alone is sufficient to guarantee a perfectly clean magazine. The employee also develops small portions of exposed film before sending it to private concerns. Good vision is required in order to determine whether or not the exposure is sufficiently clear. There are only 2 film leaders at the photographic center.

¹⁹ This employee operates lathes, milling machines, drill presses, grinding machines and handles micrometers and calipers. The activities of the position involve light to moderate exertion.

²⁰ The duties and physical fitness requirements for this position are similar to those described in the survey conducted at the New York Port of Embarkation for the position of multiograph and mimeograph operator.

²¹ The operator stands at his work and uses his fingers a great deal in placing the film which weighs from 2½ to 5 pounds in the machine. The duties are light. Fumes are produced during the "running" of the projector. There is the ever-present hazard of burning of the film. The work places the employee under a certain degree of nervous tension, so an emotionally unstable person is not suitable for this position.

²² The employee performs the usual duties of a maintenance painter. The duties are not arduous.

²³ This employee carries various items (trees, foliage, grass) from a truck or property room to the "set" and places them wherever directed. The duties are arduous and require a great deal of bending.

²⁴ The duties involve inserting a roll of film into motor-driven recording machine that makes a sound track of the sound impulses recorded on the film. The work is simple, light, and repetitious. On 1 type of apparatus the employee mounts the loaded magazines in the recording machine, turns on the motor and adjusts the current by watching meters. The machine contains a mechanism which makes the sound track on the film synchronized to the action. On another type of recording machine the operator inserts the magazine and sets switches, then constantly watches a unit which shows the oscillations of the sound waves as the track is made. If the amplitude of the waves extends beyond the discharge of the film, the operator calls the "mixer" on the phone to inform him to diminish the intensity of the sound. All the steps in the operation of the recording machine except the observation of dials or meters may be performed by a blind person after proper training.

²⁵ The employee sits under an artificial light. He uses fine brushes to retouch the positive print with black and gray pigments.

²⁶ This employee performs highly dexterous manual duties in the repair of sound recording machines. The activities range from light to moderate.

²⁷ The duties involve sitting at a bench and operating a splicing machine manipulated by 2 foot pedals and hand levers. The work is light and requires good near vision. A person with amputation of 1 lower extremity below the knee (with satisfactory prosthesis) could perform the duties satisfactorily. The employee sits at a machine with each foot on a pedal. He receives the roll of film marked with clips at points where it is to be spliced. The ends of the film at the cut portions are inserted into a mechanism which "squares" the ends. One end of the film is then placed on a block and about ¼ inch of emulsion is scraped off, glue is applied, and the 2 ends of the film compressed together by movement of the foot pedals and the closing of hand levers. It is essential that the splicing be perfect in order that the film be usable.

²⁸ This employee is a laborer who assists in the movement of scenery in the studio. The activities are arduous. An amputation of 1 lower extremity below the knee (with satisfactory prosthesis) would not disqualify.

SECOND REGION—Continued

WAR DEPARTMENT, ROME AIR DEPOT, ROME, N. Y.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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SECOND REGION—Continued

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5-24.010	Mason, utilities ²⁴																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

¹ The installation of connections and accessories in the planes require excellent physical fitness. The employees must be able to climb ladders and work in awkward positions. Amputations of the toes or amputation of 1 foot is acceptable.

² The employees of the electrical section repair and test electrical accessories such as generators, magnetos, and starters. This type of work is performed at benches.

³ The duties of this position include the repair and testing of flight and navigation instruments such as "gyro" instruments, altitude, speed, and rate of climb indicators, electrical panel instruments, and optical instruments. The work is performed at benches, entails the use of small tools, and requires excellent near vision.

⁴ This type of work entails a great deal of bending, squatting, and climbing ladders. The physical fitness requirements are necessarily high.

⁵ The work in the sheet-metal shop of the engineering division does not involve arduous exertion. The duties are performed at benches, machines, or around plane parts (wings). The employees who are assigned to the latter are the only ones who squat and work in awkward positions

⁶ This employee sprays lacquer over the fabric which has been fitted over a wing or any other part of the plane. Strips of tape are placed over the stitches holding the cloth in place and then sprayed. The lacquering is carried on in front of 2 huge ventilators which draw away the fumes of the solvent.

⁷ The duties of this position are performed in the engine repair shop where the motors are completely disassembled, cleaned, and inspected; cylinders are honed and ground; valves ground; and all parts reassembled. Most of this work is arduous since it involves the lifting of motor parts. Handicapped persons could be utilized for buffing of small parts and painting the exterior of the cylinders.

⁸ The duties of this position are performed at a bench. The employees may stand or sit. The individual parts (hydraulic units, such as brake mechanism, pumps, fuel system) which range in weight from 5 to 20 pounds, are repaired, and are then tested at special machines for leaks.

⁹ This employee repairs and adjusts parts of the motor directly on the plane. This position involves climbing up a ladder and working in awkward positions with hand tools.

- ¹⁰ The duties of this position are performed directly on the plane and involve repair and installation of all parts of the craft. This type of work requires agility, a well-proportioned physique, and ability to assume awkward positions.
- ¹¹ On special operation, the balancing of the propeller at a stand, is performed in a special room by a worker who files the edge of a blade if necessary. One group of workers glues sheets of rubber to the propeller edges (de-icing protection), while others disassemble the entire propeller, inspect the parts for wear, replace the necessary items, lubricate, and reassemble the entire mechanism. The duties are not arduous. A person with compensated organic heart disease is capable of performing the duties involved in the balancing of propellers. All duties are within the shop.
- ¹² The worker removes dents from the fenders of bodies of cars and trucks by using special hand tools which are held against the defect while hammer blows are delivered on the opposite side of the metal. After this process, the area is smoothed with a hand sanding machine. These activities involve arduous exertion.
- ¹³ The duties of this position involve the heating of metal and hammering it into the desired shape by hand or power hammer. The work is arduous.
- ¹⁴ The duties of this position consist of cutting lumber to the required sizes (from sketches) by means of a motor-driven saw, and nailing the pieces together to form boxes which are used for shipping supplies to subdepots. The work is moderately arduous.
- ¹⁵ This employee operates a tractor provided with a large blade that levels the earth on the road.
- ¹⁶ The duties of this position consist of the repair of woodwork in all parts of the depot. The work is arduous and requires agility inasmuch as assignments vary from day to day.
- ¹⁷ The duties and physical requirements are similar to those of a truck driver. This position requires light exertion.
- ¹⁸ A dispatcher is a clerk who receives telephonic or written requests for transport service, and issues the orders to the drivers. The duties are light.
- ¹⁹ The duties of this position require excellent physical fitness. This employee's activities are for the most part performed out of doors. He climbs poles and works above ground level in all types of weather.
- ²⁰ The functions of this employee are: (1) To clean all objects in a tumbler machine with soap and water, or subject them to sandblasting to remove scale, prior to the electroplating process; (2) to hang the objects to be plated on a bar which extends across the vat, so that they dip in the cyanide solution; after which the proper electrodes are applied to the bar, and to the metal to be plated on the articles; (3) to adjust the controls to regulate the flow of electricity through the solution; and (4) to raise the plated articles. These duties are not arduous. At present, activities are limited to cadmium plating, but later other metals are to be used. The occupational hazards of this position are cyanide poisoning and cyanide ulceration of the skin (usually results from a splash).
- ²¹ The duties performed in this section consist in lay-out, cutting, and sewing (by hand and machine) of fabric used for covering the wings and fuselage. The employee also repairs flying clothing and flying boots.
- ²² A guard at the depot is exposed to changing weather conditions. At the time of this survey guards were observed shouldering rifles and patrolling buildings in subzero weather. Physical fitness must be high, inasmuch as these employees must be ready for emergencies. A senior guard does not require as high a degree of physical fitness as his duties are more supervisory than physical.
- ²³ This employee places metal objects (dies, tools) in an electrically heated furnace, by means of long-handled pliers. After the proper time is allowed to elapse the part is removed and plunged in oil or water. The duties are moderately arduous.
- ²⁴ The machine shop contains the following machines: Shop milling and shaping machines; engine, bench, and turret lathes; and drill presses. All work is performed standing but it is not arduous duty.
- ²⁵ This employee works with concrete, brick, and stone. The work is arduous.
- ²⁶ This employee performs maintenance painting inside and outside the various buildings of the depot. The work is not arduous.
- ²⁷ This employee inspects parachutes and repairs defective parts. The work involves hand-cutting, hand-sewing, and machine-sewing. In this section parachutes are aired, dried, and packed. A completely packed parachute weighs approximately 25 pounds.
- ²⁸ The duties of this position involve the repair of the transparent plastic material covering the cockpit and machine-gun posts. Replacement requires lay-out, marking, cutting with a special hand saw, and heating (so that the material may be bent to the desired shape).
- ²⁹ This employee repairs pipes and other parts of plumbing systems. The work is arduous.
- ³⁰ This employee operates a heavy machine that rolls over areas of the road that require smoothing. The duties entail the movement of foot and hand levers.
- ³¹ The duties of this position involve the repair of sheet-metal fixtures in buildings of the depot. The work is arduous, requires an agile person, and is performed in the shop (preparation of individual items) and in scattered buildings. This employee operates various machines (welding, punch press, shearing machine, drill press, angle machine) and lays out patterns on the sheet-metal.
- ³² The duties of this position include the packing of articles in cardboard and wooden boxes, and marking such containers by applying ink over stencils. The duties involve moderate exertion.
- ³³ This employee operates equipment for the supply and control of heat, power, refrigeration, and ventilation.
- ³⁴ This employee repairs parts of the steam-heating system. The work is arduous.
- ³⁵ The duties of this position involve the handling of supplies, classifying them in designated compartments. As orders are received the items are taken from the appropriate shelves.
- ³⁶ This employee issues automotive parts, accessories, and tools to mechanics on written order. He keeps a complete stock of such supplies, being responsible for their proper classification in orderly compartments. This type of work requires light to moderate exertion.
- ³⁷ The duties of this position involve the issuing of various implements and gages for use in the various units of the engineering division. The work is light and necessitates prolonged standing and walking.
- ³⁸ The drivers do not load and unload the trucks. The activities involve moderate exertion.
- ³⁹ This employee performs maintenance welding wherever necessary. The work is not arduous. The proper proportion of gases is judged by the color of the flame.
- ⁴⁰ This section of the engineering department repairs and replaces any wooden item found on a plane. The machine comprising this shop are hand turning lathes (operator uses hand chisels and calipers), planers, sloters, and rotating saws. The activities require from light to arduous exertion, depending on the assignment.

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, PHILADELPHIA, PA.

- 1 Operates elevators which are controlled by levers and signals consisting of green and red lights; control of elevators also depends on verbal orders from passengers.

² Maintains order in busy customhouse. Has occasion to sit down part of his tour of duty; may be called upon to fight fire. Considerable going up stairs may be necessary on night duty shift.

[illegible]

[illegible]

THIRD REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES	EARS	CHEST							
				AMPUTATIONS												DISABILITIES													
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg				Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind
6-84.430	Rivet heater																												
4-84.060	Riveter	X																											
4-27.811	Sailmaker																												
6-82.720	Sandblaster																												
7-84.240	Saw filer	X																											
6-27.504	Sewer																												
6-88.664	Shearer																												
4-80.010	Sheet-metal worker	X																											
6-94.201	Sheet-metal worker helper	X																											
5-17.230	Shipfitter	X																											
5-17.230	Shipfitter helper and trainee	X																											
5-25.640	Shipwright	X																											
5-24.210	Stone mason	X																											
4-87.310	Temperer	X	X																										
5-24.410	Tile setter	X																											
4-76.210	Tool maker	X																											
9-32.41	Truckman																												
0-68.13	Tree surgeon																												
7-36.250	Truck driver, heavy duty	X																											
4-35.720	Upholsterer	X	X																										
4-71.510	Watch and chronometer repairer	X																											
7-54.622	Water tender	X																											
9-32.45	Wharf builder																												
5-83.951	Wood calker																												
4-33.914	Wood machine operator	X																											

¹ The duties of this position (department of public works) are different from those of a regular boilermaker. This employee inspects boilers, crawls inside and tests the boilers for leaks and recommends repairs.

² The duties of this position can be performed by a totally blind person. It is inadvisable to employ a person who is handicapped by being both blind and deaf.

³ This employee places inserts in life jackets. The duties of this position can be performed by a totally blind person. No standing is required.

THIRD REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																								EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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4-85, 040 8-33.11	Welder ⁴⁷ Woodworker helper ⁴⁸	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

¹ Builds and repairs brick walls, partitions, paving, and other brickwork or stonework as required in maintenance of buildings and utilities.

² Performs general carpenter work as needed in maintenance of buildings and utilities.

³ Secures surfaces of specified texture, color, and finish on floors, walls, or other surfaces as required in maintenance of buildings and utilities.

⁴ In lowest scale of cutting. No skill required. It is an apprentice job with good prospects of advancement. A man may advance from a general helper to a chopper to a machine operator (cutter and marker).

⁵ Performs general labor duties in warehouse and typewriter repair unit.

⁶ Some operate hand machines to place in gripper fasteners and put metal pieces on belts. None use power machines. Some inspect for loose seams. Some remove strings from products. All save time of sewing machine operator and speed up production.

⁷ Cleaner may sit or stand.

⁸ Is a highly skilled fancy machinist. Must know machinist trade and tool making. Stands all the time.

⁹ General helper assigned to help electrician. He also keeps electric lights clean and replaces burned out bulbs.

¹⁰ An electrical repairman, doing such electrical work as is required in maintenance of buildings and utilities.

¹¹ Highly skilled man who acquires knowledge through experience over a long period of time. Develops a "sense" of rustproofing. Not an arduous job. Includes washing metal surfaces, and sanding them in well-ventilated shop.

¹² Operates engines in fireroom and like machinery as required in maintenance of buildings and certain equipment. Hearing must be acute in 1 ear for high-pitched sound.

¹³ This is a sedentary position. Must be skilled in hand sewing of coats and heavy material.

¹⁴ General helpers in the mechanical unit are interchangeable. However, they may be assigned as a helper and these are not interchangeable jobs. Colors may be means of differentiating types of wires.

¹⁵ This work in clothing and equipment unit is a training job and in every assignment, general helper may be promoted. Duties vary and work is interchangeable. May operate a variety of manual machines. May do some of the simpler jobs in electric-driven machines. May operate jack and skid and bring materials from freight cars to the different departments.

¹⁶ Men work in crews and may be called upon to do anything not requiring skill.

¹⁷ Does specialized woodwork which is not rough or heavy, as required in maintenance of buildings and utilities.

¹⁸ A highly skilled position requiring employee to work from blueprints to build cabinets with up to 150 drawers in them and every drawer has to work. He works with finished lumber.

¹⁹ Classified laborers in the maintenance unit may do any labor indoors and outdoors. Most of their work is cleaning. Female laborers keep the women's rest rooms clean, but also may do any other labor indoors or outdoors.

²⁰ Performs clean-up work in the warehouse and on the floors. Usually work ½ to 1 hour later than other employees in order to close windows.

²¹ A man working on bench cannot be rated as a machine operator even though he works at a machine part time. This job is intermediate between general helper and joiner.

²² Part time machine—part time floor work.

²³ Standing work. Operates skiving machines, sewing machines, and perforating machines. Machines may be power-driven but some of these have foot treadles. There is also hand skiving. They thin and emboss leather. There may be hand stitching.

²² Operates the machines at the request of the millman. Some machines are easier to operate than others, but the same man may operate several different machines at different times. Normally this position will imply the operation of shapers, lathes, planers, and repairing of refrigerators and typewriters.

²³ This is a maintenance job in the clothing and equipment unit. He takes care of all machines in the mechanical department.

²⁴ Is a repairman in the clothing and equipment unit. Takes care of repairs of all machines in the unit. Makes no new parts.

²⁵ Does similar work to that of the machinist but the machinist tells him what to do. A machine operator feeds a machine at one end and the helper takes the finished product out at the back of the machine.

²⁶ Works on canvas, sheeting, and mattress covers. Also makes elbow pads of canvas and felt. Shears are used for some cloth. Electric straight and round cutting knives are also used. Operates an electric perforator machine which makes 100 or more holes at a time.

²⁷ Messengers are under 2 units. One unit has charge of the messengers who act as escorts. Another unit has charge of the messengers who carry mail. Messengers go from building to building, and may carry heavy packages and open heavy doors.

²⁸ Operates machines to get a job out in wood from a blueprint. He works in heavy rough lumber. He machines lumber so the joiner can later use it to make fine work.

²⁹ Involves all stages of outside painting.

³⁰ This position involves painting and rustproofing inside the shop; this is done mostly with quick-drying varnishes and lacquers. Shop painters and house painters are not interchangeable.

³¹ Under supervision of plumber does pipe fitter's work necessary in maintenance of buildings and utilities.

³² A general helper assigned to assist pipe fitter. Men work in crews and may be called upon to do anything.

³³ Performs general plumbing work as needed in maintenance of buildings and utilities. Plumbers supervise pipe fitters.

³⁴ This position requires prolonged standing to operate presser in the steam pressing of various types such as underpressing to flatten seams on inside and seam pressing. The machines vary in age, safety, and convenience. There may be levers for both hands and both feet. There may be a dual set up in which 1 man operates 2 machines at once, going from one to another.

³⁵ The duties include setting machinery in place, moving sections of construction, setting cranes and splicing ropes and cables.

³⁶ Saw filer is in machinery maintenance section. Does tool grinding, operates saw-filing machinery and does hand filing. Sits 10 percent of time.

³⁷ Piecework. Requires varying amount of skill. Work is interchangeable especially in cases of absenteeism and conversion. Power sewing machines are used. Men work where the material handled is too heavy for women.

³⁸ This position is in the maintenance unit. Employee fabricates, installs, and maintains in good repair all sheet-metal work required in maintenance of buildings and utilities. Will also be required to do spot welding and to use punching machine.

³⁹ Works in the mechanical unit and does whatever the sheet metal worker requests him to do. It is a training job. Helper jobs are not interchangeable.

⁴⁰ Works in the mechanical unit and does any sheet-metal work needed at ground level or high altitudes. Needs all his faculties. May operate punching machine and do spot welding.

⁴¹ Operates power-driven machine. There is live steam in the drum. Process shrinks material and finishes material after sponging. The operator is required to lift bolts of cloth weighing 50 pounds.

⁴² General helpers are interchangeable all over the depot. There is live steam in the drum of the power-driven sponging machine.

⁴³ Must maintain perfect vertical even edge on side on which he works. Cloth is very heavy and the operation requires 2 men. One pushes the spreader and the other keeps the material straight. This work is done in 2 units. In "equipment" a hoist is used to raise the bolt of material to spreader. In "clothing" the cutter and marker do this manually. The bolts may weigh up to 400 pounds. If the table is wide, it is an awkward procedure.

⁴⁴ Only men do this work which is mostly on officer's uniforms. Coat collars are basted in by hand and lining finished by hand. Use iron to press. May sit to operate machine, lever on the side and both hands are used. Checks on operator and keeps material straight. Identifies work. Ticketing is the next operation after cutting and the purpose is to have uniformity of material and shade. It is a sitting job. Feet are not used.

⁴⁵ Sets type of printing and ticketing machine which is electrically driven. There is a lever on the side and both hands are used. Checks on operator and keeps material straight. Identifies work. Ticketing is the next operation after cutting and the purpose is to have uniformity of material and shade. It is a sitting job. Feet are not used.

⁴⁶ Prolonged standing in operation of lathes and other machines.

⁴⁷ This is not a straight welding job. He does some welding but about half of his work is blacksmithing. Electric and oxy-acetylene welding.

⁴⁸ Does anything the woodworker requests of him. It is a training job. Helpers are interchangeable. Helper may have to help on several types of work.

THIRD REGION—Continued

NAVY DEPARTMENT, U. S. MARINE SUBDEPOT, PHILADELPHIA, PA.

Code	Title of position	Depth perception required	ORTHOPEDIC													EYES		EARS		CHEST	
			AMPUTATIONS					DISABILITIES								Blind, both eyes	Industrially blind	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis
			Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders
8-49 03	Bindery operator																				
7-36 250	Chauffeur ¹	X				X									X						
9-49 20	Chauffeur helper ¹	X				X									X						
1-03 02	Checker ²	X				X									X						
4-44 010	Compositor ³	X				X									X						
6-42 020	Cutter, paper ⁴	X				X									X						
4-48 010	Cylinder pressman ⁵	X				X									X						
6-49 410	Cylinder pressman helper ⁵	X				X									X						
2-95 30	Elevator operator ⁶	X				X									X						
7-70 010	Fireman ⁷	X				X									X						
7-36 510	Fork lift operator ⁸	X				X									X						
9-64 15	General helper ⁹	X				X									X						
7-88 410	General helper ¹⁰	X				X									X						
9-63 41	General helper (clothing unit) ¹¹	X				X									X						
9-64 44	General helper (ordnance) ¹²	X				X									X						
9-64 13	General helper (stationary unit) ¹³	X				X									X						
2-61 03	Guard	X				X									X						
2-61 03	Guard ¹⁴	X				X									X						
2-61 03	Guard ¹⁵	X				X									X						
2-61 03	Guard ¹⁶	X				X									X						
2-61 03	Inspector (clothing unit) ¹⁶	X				X									X						
4-27 121	Inspector (clothing unit) ¹⁷	X				X									X						
7-88 410	Inspector (clothing unit) ¹⁸	X				X									X						
2-84 10	Laborer ¹⁸					X									X						
2-84 10	Laborer ¹⁹					X									X						
9-49 20	Laborer ²⁰					X									X						
2-86 20	Laborer (clothing unit) ²¹					X									X						
9-49 20	Laborer, freight traffic ²²					X									X						
2-84 10	Laborer (stationary unit) ¹⁰					X									X						
0-44 25	Lay-out man (printer specialist) ²³	X				X									X						
5-99 070	Leaderman ²⁴	X				X									X						
4-44 110	Linotype operator ²⁵	X				X									X						

packages, and stencil packages. They operate paper-cutting and punching machines both of which are electric.

³⁷ This position involves prolonged standing.

³⁸ Takes pictures in a studio and develops negatives. Prolonged standing required as well as use of good eyes and hands.

³⁹ Two eyes, 1 arm, and 1 leg are necessary. No lifting is required.

⁴⁰ May operate jitney that picks up pallet trucks. Roller conveyors reduce amount of lifting and carrying. Top supervisor but is a working supervisor and may do anything. Handles freight in and out.

⁴¹ In bin section, material is stored 10 feet high. A fork lift is used for the higher elevations. Ladders are used up to 2 or 3 feet. Must squat for the material nearest the floor.

⁴² Quartermaster is the highest level in supervision. Leaderman advances to quartermaster. There are 2 positions of quartermaster: as foreman of labor and as foreman of packers. They are usually working supervisors.

⁴³ They are working supervisors, engaged in the inspection of clothing.

⁴⁴ Checks and spots trucks as they come in. Checks materials carried. This is a supervisory job.

⁴⁵ Straps boxes with steel bands. Stacks boxes 60 pounds maximum weight.

³⁷ Assists journeyman in repair of such office equipment as typewriters, adding machines, and calculating machines.

³⁸ Must be able to take care of everything on wheels, everything that has a motor, and the motors which are not in vehicles. He is a general repairman.

³⁹ Repairs typewriters, adding, bookkeeping and tabulating machines, and like equipment.

⁴⁰ Works on all printing presses. Needs all facilities.

⁴¹ Stands over lighted table in semidark room. No lifting. Sometimes called an opaquer.

⁴² Handles returned property; identifies, evaluates, and reboxes it; makes up requisitions in retail stockroom.

⁴³ Much of the work is mechanical. Some of it is careful hand work such as preparing glass parts and other fragile articles for transportation.

⁴⁴ Packing jobs vary. The work is not constant and packers alternate. Packers unpack, test, repack, store. Lift 100 to 150 pounds. They do not climb as the installation has a mechanic genius which places packages on shelves as high as 6 feet.

⁴⁵ Processes clothing and packs it in crates. Color of emblem on box indicates type of gear in the box.

⁴⁶ Packers climb ladder, pull stock off shelves, push carts around, pack stock, band

TREASURY DEPARTMENT, U. S. CUSTOMHOUSE PHILADELPHIA, PA.

Code	Title of position	X	X	ORTHOPEDIC																								EYES	EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				AMPUTATIONS												DISABILITIES													Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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2-66. 23	Port patrolman, customs ¹																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

¹ Duties include patrolling water front day and night; dealing with smugglers, climbing on vessels sometimes by means of rope ladders; they may be called to inspect narrow

and small spaces.

TREASURY DEPARTMENT, UNITED STATES MINT, PHILADELPHIA, PA.

6-87. 110	Annealer	X	X																					
0-07. 21	Assayer, junior																							
8-93. 86	Automatic scale machine operator																							
4-76. 010	Die maker	X	X																					
4-76. 120	Die setter	X	X																					
2-95. 20	Elevator operator ¹																							
4-73. 510	Engraver	X	X																					
5-24. 130	Furnace builder																							
2-61. 03	Guard ²	X	X																					
6-88. 627	Knuckle press operator ³																							
4-73. 020	Medalist ⁴																							
0-50. 37	Prover ⁵																							
4-72. 316	Roller, silver and minor coinage, junior and senior																							
5-83. 641	Scale builder and adjuster ⁶	X	X																					
4-78. 071	Selector ⁷																							
4-73. 510	Transfer engraver																							

¹ Operates passenger elevator with electrical controls; elevators are supplied with seat for operator.

² Maintains order and makes frequent rounds demanding going up stairs among machines and furnaces. Opens and closes heavy gates between sections of building; acts as firefighter if necessary.

³ The knuckle joint presses used in the mint are a distinctive type of press developed primarily for coining purposes.

⁴ A medalist is a highly specialized type of engraver who engraves medals and coins.

⁵ The duties of this position include the following: Gauge strips to the proper thickness, set the finishing rolls to roll to the proper gauge and weigh blanks from the strips frequently to test them for weight. The prover must be able to judge between a good strip and a

bad strip, to use a micrometer to test for thickness of strips and diameter of planchets and to use small hand balances to test for weight of blanks.

⁶ Performs difficult work involved in the construction, adjustment, and repair of automatic scales and high-precision balances used in the weighing of bullion and coin. Inspects all balances and scales in use in the plant daily and the making of adjustments to see that all weights are up to standard.

⁷ Reviews coins or blanks as they pass on a movable belt and rejects those which are defective. All women assigned to these duties are selected from the sewing-woman register by special arrangement with the Third United States Civil Service Regional Office. They are required to be qualified sewing women because when the volume of work demands it, they are expected to alternate between the reviewing room and the sewing room in the Mint.

THIRD REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST								
				AMPUTATIONS										DISABILITIES																
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac
5-08, 070	Optical glass grinder and polisher																													
5-08, 060	Optical parts inspector	X	X																											
0-56, 11	Photographer																													
5-86, 510	Photographer helper																													
4-49, 010	Photolithographic bookbinder																													
7-98, 910	Photolithographic bookbinder helper																													
4-47, 100	Photolithographic platemaker (zinc)																													
4-48, 070	Photolithographic pressman																													
5-86, 310	Photostatic camera operator																													
5-30, 210	Plumber																													
5-08, 071	Precision optical worker																													
7-99, 610	Precision optical worker helper	X	X																											
5-52, 432	Pressman																													
5-54, 053	Printer																													
4-44, 010	Printer's helper	X	X																											
7-98, 010	Punch press machine operator																													
5-88, 624	Screw-machine operator, hand	X	X																											
3-78, 144	Set-up man, automatic screw machine																													
4-75, 160	Tool hardener	X	X																											
4-87, 230	Under engineering aide																													
0-19, 02	Watch and chronometer repairman	X	X																											
4-71, 510	Wood machine operator																													

¹ The work involves patrolling grounds, building and machine shop. A car may have to be used. May be required to do work of fire fighter.

² Takes messages from one office to another. May have to push a small truck; does

considerable walking, sometimes outside; should be able to read directions and hear instructions.

down the crystal mechanically. Worker merely times the machine from start to finish.

¹³ Worker should have good bilateral vision, because of the nature of the work.

¹⁴ Employee does construction work, repairs and installs motors, hangs lights, takes care of all outside lighting, and also does repair work of powerhouse. Duties are more arduous than those of shop electrician.

¹⁵ Duties of this position consist of keeping the woodworking machinery working properly. Mechanic also does woodworking as needed.

¹⁶ Duties consist of cleaning iron bars (copper, aluminum) by putting the metal into vats to remove paint, corrosion, and rust so that the metal can be refinished. Very arduous duty position, and a dangerous one if extreme care is not exercised in operating the buffer which is used to finish metal surfaces.

¹⁷ Worker takes and grinds a flat surface on raw quartz, mounts it on a piece of bakelite or glass with a special type of cement, and puts it in an oven to harden the cement.

¹⁸ Finisher on standards puts quartz crystals on a finished frequency by grinding, using a pulverized carbundum and water mixture. Finishing technician finishes the above process. Finisher on standards, or the finishing technician, should not have a history of tuberculosis.

¹⁹ There are several designations: Principal, senior repairman, helper, and junior helper. Work covers a wide range. There are 3 main groups of work, viz, commercial, field, and coast artillery telephone repair.

²⁰ Duties consist in picking out defects on wafers of a quartz crystal by means of a reflection tinoscope and rotaroscope.

THIRD REGION—Continued

WAR DEPARTMENT, PHILADELPHIA QUARTERMASTER DEPOT, PHILADELPHIA, PA.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																					EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders				Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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FOURTH REGION

NAVY DEPARTMENT, U. S. NAVAL GUN FACTORY, WASHINGTON NAVY YARD, WASHINGTON, D. C.

Code	Title of position	Depth perception required	ORTHOPEDIC																				EYES	EARS	CHEST
			Color vision required	AMPUTATIONS										DISABILITIES											
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Legs	Foot	Back	Hips or shoulders			
				Blind, both eyes	Blind, one eye	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis														
4-75.120	Assembly machinist ¹	X																							
4-86.010	Blacksmith, heavy fires ²	X																							
4-86.010	Blacksmith, other fires ²	X																							
7-97.010	Blacksmith, apprentice, heavy fires ²	X																							
7-97.010	Blacksmith, apprentice, other fires ²	X																							
8-93.71	Blacksmith helper, heavy fires ³	X																							
8-93.71	Blacksmith helper, other fires ³	X																							
4-83.100	Boilermaker	X																							
7-97.020	Boilermaker apprentice ⁴	X																							
4-83.100	Boilermaker helper ⁵	X																							
6-78.041	Boring machine operator	X																							
6-39.114	Box maker ⁶																								
4-91.351	Brass melter																								
6-77.020	Buffer and polisher																								
6-88.632	Cartridge-case maker ⁷																								
6-87.110	Cartridge-case maker, annealing																								
6-84.013	Cartridge-case maker finisher ⁸																								
6-88.627	Cartridge-case maker, hydraulic press ⁹																								
6-88.624	Cartridge-case maker, punch press ¹⁰																								
6-88.627	Cartridge-case maker, shaper ¹¹																								
6-78.083	Cartridge-case maker, turret drill ¹²																								
6-82.910	Chipper, foundry																								
4-86.010	Coppersmith ¹³	X																							
7-97.040	Coppersmith apprentice ¹³	X																							
6-94.201	Coppersmith helper	X																							
5-73.040	Craneman, electric (foundry)	X																							
5-73.010	Craneman, machine shop ¹⁴	X																							
4-91.351	Cupola tender ¹⁵	X																							
6-78.081	Drill press machine operator ¹⁶	X																							
6-86.110	Drop forger ¹⁷																								

- 1 Floor assembly: Arduous duty requiring full normal function of both legs. Punch assembly: Moderate duty and does not require full function of both lower extremities except that employee must be capable of ordinary locomotion.
- 2 One blacksmith at this mavy yard has an artificial leg and performs duties satisfactorily. Sulphur dioxide in shop may be irritating to eyes. Two ratings, "heavy fires" and "other fires," involve different degrees of physical exertion.
- 3 Sulphur dioxide in shop may be irritating to eyes. Two ratings, "heavy fires" and "other fires" involve different degrees of physical exertion.
- 4 Most boilermakers become deaf because of the noise. Hearing is required for instructions only.
- 5 Hearing is required for receiving instructions. Loss of several fingers other than thumb on secondary hand would not interfere with proper performance of duties.
- 6 Both hands must be intact. The deaf or hard of hearing could perform the duties of this position satisfactorily. Persons with amputation of 1 leg (with satisfactory prosthesis) could be considered for this position. Organic heart disease if fully compensated would be acceptable.
- 7 Duties could be performed sitting down if necessary. Duties of helper involve moderate work and long standing. Difficulty of work depends on size of cartridge.
- 8 The helper does any lifting involved.
- 9 Employee operates a large hydraulic press. This is arduous duty and involves continuous lifting of 15-pound cases. Helper performs approximately same duties.
- 10 This employee operates the machine in a sitting position using the right foot. He must stand up occasionally to get new material. Good close vision is required.
- 11 This employee operates a hydraulic press.
- 12 Work on small cartridge not arduous. Helpers do most of the lifting.
- 13 Hearing is necessary for instruction only.
- 14 Crane man in machine shop differs from those in other shops in that they work at lower levels and need not have good color vision.
- 15 The duties are arduous.
- 16 Duties include work on several types of machines, including lathes, drills, planes, milling machines, boring mills, shapers, slotters, and radial drill presses.
- 17 Employee must climb on machines for necessary repairs and adjustments. Presence of sulphur dioxide may be irritating to eyes.
- 18 Duties depend on the piece of work. Small pieces are welded at a bench; large pieces involve much more arduous duty.

19 Employee occasionally works at high elevations.

20 This is purely supervisory work.

21 Hearing is necessary for instructions. Some of the electroplaters work at large guns around cyanide. These employees are physically examined every 3 months. They must be able to distinguish metals by color.

22 The presence of sulphur dioxide may be irritating to eyes. Employees must climb machines occasionally for adjustments.

23 The shoulders must have free motion but hips need not.

24 This is very arduous duty and involves lifting red hot metal slabs from furnace to cart with long pliers. Working environment is very hot.

25 Work is not too arduous, but is hazardous.

26 Duties not arduous in the sense of involving heavy work, but duties require an active, agile person.

27 Both hands are needed but all fingers are not absolutely necessary.

28 Duties are of supervisory type and involve office work. Persons with a hearing aid are acceptable.

29 Metallic gases are present in brass foundry. Apprentices should be able to hear ordinary conversation.

30 This work is comparatively light.

31 Workers operate machine by foot pedal, while in sitting position. This position is in the cartridge case shop.

32 The duties of ordinance workers vary a great deal. There are some who stand all day and others who sit all day. Some do not need good near vision, and others need excellent near vision. Deaf persons could do some of the work. On the whole, good vision and the full use of hands and arms are the main requirements. The supervisors of the shop change the workers around in the various jobs to find the ones who are best suited in the work.

33 The duties of these positions vary but all involve light work most of which requires no standing. Some employees operate drill presses, others do engraving, sewing, small assembly, inspecting, finishing of parts, burring, gaging, trimming, and polishing. Some do work in stockroom, and others keep time records.

34 Worker may have 1 artificial leg if it allows standing all day. Shoulder joints must have free movement but hip joints do not. The duties are not too laborious and organic heart disease of certain types would be acceptable.

35 Operates power punch and cutting machines in boilermaker shop.

FOURTH REGION—Continued

NAVY DEPARTMENT, DAVID TAYLOR MODEL BASIN, CARDEROCK, MD.

Code	Title of position	X	Depth perception required	Color vision required	ORTHOPEDIC																				EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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					Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back				Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
4-33.914 0-44.71	Millman 1 Model maker 2	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

¹ The employee must be able to read blueprints necessitating good near vision.² The duties of a model maker vary with the size of the model. The physical requirements for large models are higher than for small ones. Markedly handicapped persons

could work on the miniature models while sitting down. They must have good near vision to read blueprints.

NAVY DEPARTMENT, CURTISS BAY COAST GUARD STATION, CURTISS BAY, MD.

4-86.010	Anglesmith	X																														
4-86.010	Blacksmith	X																														
4-80.070	Boatbuilder																															
4-83.100	Boilermaker	X																														
6-78.041	Boring-machine operator	X																														
6-77.020	Buffer and polisher	X																														
5-83.951	Calker, wood	X																														
4-80.010	Coppersmith	X																														
5-73.010	Craneman	X																														
0-48.16	Draftsman																															
6-78.081	Drill press machine operator	X																														
0-48.16	Engineering draftsman	X																														
4-97.210	Electrician, ship	X																														
4-97.220	Electrician, shop	X																														
6-82.910	Foundry chipper	X																														
6-88.731	Furnaceman	X																														
6-74.110	Galvanizer																															
6-85.210	Gas cutter and burner	X																														
7-94.100	Helper trainee																															

FOURTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST					
				AMPUTATIONS										DISABILITIES															
				Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis
5-25 650	Joiner	X																											
5-16 920	Letterer and grainer		X																										
5-17 210	Loftsman	X																											
4-75 010	Machinist	X					X																						
5-83 621	Master mechanic	X					X																						
7-94 100	Mechanical trades apprentice	X					X																						
4-81 010	Molder																												
7-27 110	Painter	X					X																						
5-17 010	Patternmaker		X				X																						
5-33 110	Pipe coverer and insulator																												
5-30 015	Pipe fitter, ship																												
5-30 015	Pipe fitter, shop						X																						
5-30 260	Plumber																												
6-88 623	Puncher and shearer	X																											
5-88 030	Rigger, shop ¹	X																											
4-84 040	Riveter, ship	X																											
4-84 040	Riveter, shop	X																											
4-27 811	Sailmaker	X					X																						
4-80 010	Sheet-metal worker	X					X																						
5-25 650	Ship joiner																												
5-17 230	Shipfitter, ship	X																											
5-17 230	Shipfitter, shop	X					X																						
5-25 640	Shipwright	X																											
5-25 640	Shipwright						X																						
1-38 01	Storekeeper						X																						
1-38 011	Storekeeper, assistant	X					X																						
1-38 01	Storekeeper, junior	X					X																						
1-38 01	Storekeeper, under	X					X																						
4-76 210	Tool maker	X					X																						
4-35 720	Upholsterer						X																						
4-85 040	Welder	X																											
4-85 020	Welder, electric	X																											
4-85 030	Welder, gas	X																											

¹ This employee works with rope and wire, making life-lines, cables, and ladders.

⁴ This employee uses a paint solvent that is toxic. It appears to be particularly toxic to overweight persons.

NAVY DEPARTMENT, U. S. NAVAL POWDER FACTORY, INDIAN HEAD, MD.

NAVY DEPARTMENT, NAVAL TORPEDO STATION, ALEXANDRIA, VA.[illegible]

FOURTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																		EYES	EARS	CHEST			
				AMPUTATIONS										DISABILITIES													
				Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back				Hips or shoulders		
				Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis																	
6-88, 731	Furnaceman		X																								
4-87, 010	Heat treator	X	X																								
8-82, 10	Helper general																										
5-25, 650	Joiner																										
7-94, 100	Machinist apprentice																										
8-78, 10	Machinist helper																										
4-52, 481	Ordinance worker	X	X																								
4-52, 481	Ordinance man	X	X																								
9-65, 64	Packer																										
7-27, 010	Painter		X																								
5-30, 015	Pipe fitter		X																								
7-32, 811	Pipe fitter helper																										
5-30, 260	Plumber	X	X																								
4-80, 010	Sheet-metal worker	X	X																								
4-87, 310	Temperer	X	X																								
4-76, 210	Tool maker	X	X																								
4-85, 040	Welder	X	X																								

NAVY DEPARTMENT, U. S. NAVAL MAGAZINE, BELLEVUE, D. C.

4-52, 481	Ordinance worker ¹																									
4-52, 481	Ordinance worker ²	X																								

¹ Due to the variety of jobs done by these workers it is difficult to be specific in recommendation. Some workers stand; others sit; some need good near vision, others do not. The work could be done by a deaf person, but extra occupational hazards must be considered. The work is classed as hazardous, but if the safety devices are used and instructions carried out, there is really little danger. The supervisors are adept in placing in-

dividuals in the positions in which they are best suited.

² The duties performed vary and some require no standing, and consequently would not need all faculties of lower limbs. Physically handicapped persons could be placed here if the handicap were confined to the legs. The work is not arduous.

[illegible]

These employees are hired as classified laborers and promoted to battery attendants after a few months' experience.

NAVY DEPARTMENT, NAVAL AIR STATION, NORFOLK, VA.

[illegible]

¹ This employee is a bench worker. Good eyesight and exceptional strength of hands and arms are required.

NAVY DEPARTMENT, NORFOLK NAVY YARD, PORTSMOUTH, VA.

4-86.010	Anglesmith	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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FOURTH REGION—Continued

Code	Title of position	ORTHOPEDIC																				EYES		EARS		CHEST
		AMPUTATIONS										DISABILITIES														
		Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders					
		Color vision required	Depth perception required																							
4-97.210	Electrician, ship ³																									
4-97.220	Electrician, shop ⁴	X	X	X																						
5-83.921	Elevator mechanic																									
2-95.30	Elevator operator ⁵																									
2-95.30	Elevator operator ⁶																									
7-70.040	Engineer, junior, operating																									
5-72.010	Engineer, stationary, operating																									
0-69.45	Engineering draftsman aide																									
0-69.45	Engineering draftsman apprentice																									
0-48.16	Engineering draftsman, chief																									
4-86.010	Frame bender																									
6-74.110	Galvanizer																									
3-40.04	Gardener																									
6-86.110	Hammer runner ⁷																									
5-25.650	Joiner, supply shop ⁸	X																								
5-16.920	Letterer and grainer ⁹																									
5-17.210	Loftisman ¹⁰	X																								
7-94.100	Machine shop helper, trainee ¹¹																									
5-97.110	Maintenance foreman	X																								
7-84.200	Maintenance instrument maker helper																									
7-71.010	Oilier																									
4-52.481	Ordnanceman, supply shop ¹²																									
9-65.45	Packer, supply shop ¹³	X																								
7-27.010	Painter																									
5-33.110	Pipe coverer and insulator																									
5-30.015	Pipe fitter, ship	X	X																							
5-30.015	Pipe fitter, shop																									
5-39.100	Plasterer ¹⁴	X	X																							
5-30.260	Plumber ¹⁵	X	X																							
5-88.030	Rigger	X	X																							
5-05.570	Rigger, antennae	X	X																							
9-45.64	Rigger, arsenal	X	X																							

FOURTH REGION—Continued

NAVY DEPARTMENT, U. S. MARINE STATION, QUANTICO, VA.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES			EARS		CHEST				
				AMPUTATIONS												DISABILITIES													
				Arm	Hand	Hand	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hand	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis
7-57. 501	Hand ironer																												
7-57. 511	Laundry press operator																												
6-27. 214	Mangle handler																												
7-57. 021	Marker																												
5-83. 111	Mechanic learner ¹																												
7-49. 023	Parachute repairman																												
7-57. 522	Sorter																												

¹ Employee works in the aircraft hangar, doing radio installation and repairing of typewriters and adding machines.

POST OFFICE DEPARTMENT, POST OFFICE, WASHINGTON, D. C.

5-81.010	Automobile mechanic, special ¹	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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[illegible]

¹ Duties consist of overhauling engines of postal vehicles and involve heavy lifting of radiators. An artificial limb would be acceptable provided the employee could stand all day and get up and down from the floor.

2 Deaf mutes with proper training would be acceptable for this position.

³ Employee builds and repairs equipment, including trucks, fully compensated, acceptable for this position.

* Carpenter repairs wooden bodies on trucks; duties involve climbing.

- Carpenter repairs wooden bodies on trucks, buses, motor vehicles.
- Duties consist of carrying mail pouches weighing up to 50 pounds, walking an average of 12 miles a day, and working in all types of weather.

Carrier handles packages up to 70 pounds and sacks up to 100 pounds. Work is 12 miles a day, and working in all types of weather.

7 Employment is part time (5 hours a day). Charwomen mop, dust, and sweep corridors and involves exposure to all types of weather. Hands need not be intact, but employee should have good grasping power.

8 This is a supervisory position furnishing instructions to charwomen, and also in determining and supplying material and equipment needs.

⁹ Duties consist of checking trucks in and out. Work is light but requires getting up and down from desk to window. Employee may have an artificial leg if function is satisfactory.

10 Duties consist of repairing water coolers, air-conditioning units, fans, electric-eye door, cold storage plant, and conveyors.

ii Duties involve the repair and maintenance of heating plant. Employee must be in good physical condition to cope with emergencies.

¹² Operator must pull doors together using strap, and must push trucks of mail bags on and off elevator.

¹² Duties consist of washing, lubricating, and general servicing of trucks, and on elevators.

¹⁴ Duties consist of washing, fabricating, and sorting, tea roasting, tea processing, and sorting.

10 Duties involve handling heavy bags of mail and pushing trucks loaded with bags.

¹⁰ Duties consist of cleaning reflectors, changing bulbs, and making minor repairs to sockets. (An average of 42 reflectors are washed a day.) Shoulder and other joint should have motion in all directions. Partial deafness in 1 or both ears is acceptable for this job.

¹⁷ Duties involve triannual inspection of motor vehicles and handling emergency breakdowns and minor overhauling. Shop is exposed to outdoor temperature.

18 Mechanic and helper service oil conveyor systems and must climb all over the systems. They also work on scales and canceling machines.

10 Messenger drives a truck and handles bags of mail weighing 100 pounds in the loading and unloading of trucks.

²⁰ Duties consist of refinishing furniture and interior painting. "Painting-arm" must have free motion in all directions.

²¹ Organic heart disease, fully compensated. Hearing necessary for receiving instructions only. "Painting-arm" must have free motion in all planes.

²² Clerk handles packages weighing up to 70 pounds. Window clerks are not exposed to dust and therefore may have a history of tuberculosis. Artificial leg is acceptable if it allows prolonged standing.

²³ Duties of this position vary with assignment. Window clerks do light work but must get up and down from stool and walk short distances; distributing clerks are either

much see up and down from order clerks standing or walking; money-order clerks in the cashier's office are seated; inquiry section clerks are seated. Clerks in sedentary positions may

²⁴ Duties consist of repairing radiators; arduous duty. Mechanic also works on fenders

²² Duties are light and involve keeping records and filing.

26 Duties involve prolonged standing and lifting motor parts such as brake drums.

27 Deaf mutes could be employed in this section.

THE UNIVERSITY OF CHICAGO

FOURTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, BALTIMORE, MD.

Code	Title of position	ORTHOPEDIC																EYES			EARS		CHEST
		DISABILITIES																Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	
		AMPUTATIONS								DISABILITIES													
		Color vision required	Depth perception required	Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back	Hips or shoulders		
1-01.02	Bookkeeper																						
1-28.01	Carrier, city mail																						
1-28.01	Carrier, parcel post																						
1-28.02	Carrier, special delivery																						
2-52.10	Charwoman																						
2-52.10	Charwoman, head																						
1-18.01	Clerk																						
0-57.10	Custodian, assistant																						
1-18.61	Dispatcher, motor vehicles ¹																						
5-83.921	Elevator mechanic, custodial																						
2-95.20	Elevator operator ²																						
5-72.020	Engineman, assistant																						
5-72.020	Engineman and helper ³																						
2-84.10	Janitor ⁴																						
2-86.10	Laborer, custodial																						
2-84.10	Laborer, foreman ⁵																						
2-86.10	Laborer, postal ⁶																						
2-86.10	Lampist																						
2-86.10	Marble polisher ⁷																						
5-83.641	Mechanic, general ⁸																						
1-27.10	Parcel-post clerk																						
2-95.20	Passenger elevator operator ⁹																						
7-32.812	Plumber ⁹																						
1-27.10	Postal clerk ¹⁰																						
5-92.768	Shop foreman, custodial ¹¹																						
2-61.03	Watchman																						

FOURTH REGION—Continued

Code	Title of position	ORTHOPEDIC																			EYES		EARS		CHEST	
		AMPUTATIONS									DISABILITIES										Blind, one eye	Blind, both eyes	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis
		Arm	Hand	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders				
2-95.30	Freight elevator operator																									
2-61.03	Guard ¹²																									
5-83.641	Mechanic, general																									
5-83.641	Mechanic, special																									
1-27.10	Parcel-post clerk ¹³																									
2-95.20	Passenger elevator operator																									
1-42.32	Telephone operator																									

¹ Carrier must sort mail before starting out on delivery. He is exposed to all types of weather.

² Carrier handles packages up to 70 pounds and sacks up to 100 pounds. Work is arduous and involves exposure to all types of weather.

³ Secondary hand need not be infat, but employee must have 2 hands.

⁴ This is a supervisory position including furnishing instructions to charwomen, and also in determining and supplying material and equipment needs.

⁵ Clerk positions vary in duties and therefore vary in physical requirements. Some sort and stamp letters, others sort mail according to destinations. These are both semi-standing positions. Others, such as clerks in the cashier's office, money order, war bond, and postal savings clerks have sedentary positions. Several men do directory searching on improperly addressed mail. This last-mentioned activity demands good eyesight, but is otherwise very light work. General delivery mail requires prolonged standing.

⁶ Position is supervisory in nature. Defective hearing corrected with hearing aid acceptable.

⁷ Employee services trucks with oil, gas, air, and water. One leg is acceptable if satisfactory prosthesis is used.

⁸ There are 2 types of elevators to be considered: (1) The completely automatic which is suitable for persons with 1 arm and (2) the partially automatic type requiring 2 arms and hands for efficient operation.

⁹ Employee is all-around repairman; duties involve steam fitting, plumbing, carpentry, and repair of elevators. One assistant engineer has charge of all janitors and charwomen.

¹⁰ This is almost entirely a supervisory position although in emergencies the chief engineer is called upon to assist the others.

¹¹ Employee must be able to shovel 200 pounds of coal into wheelbarrow and wheel it to furnace.

¹² Employees must be able to handle firearms.

¹³ Clerk must handle packages weighing up to 70 pounds and sacks up to 100 pounds.

The temperature in winter seldom falls below 20° but the cold is damp and penetrating.

¹ This rural carrier combats severe winter weather and bad roads. He must be able to handle a car in difficult situations.

⁴ Messenger brings mail to post office from station. Within 1 mile radius he is also a special delivery carrier.

[illegible]

WAR DEPARTMENT, CHARLOTTE QUARTERMASTER DEPOT, CHARLOTTE, N. C.

90

¹ The duties of this position are to handle cases and bags of various types of staple foods, bolts of canvas, and clothing materials in the warehouses.

NAVY DEPARTMENT, CHARLESTON NAVY YARD, CHARLESTON, S. C.

[illegible]

FIFTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST				
				AMPUTATIONS								DISABILITIES																
				Arm	Hand	Hand	Fingers	Leg	Legs	Foot	Hip or shoulder	Arm	Arm	Hand	Hands	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye		Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis
6-85, 210	Gas cutter or burner	X	X																									
6-56, 010	Gas plant operator																											
6-86, 110	Hammer runner																											
9-65, 64	Handyman																											
4-87, 010	Heat treater																											
9-32, 01	Hod carrier		X																									
6-84, 410	Holder-on																											
4-75, 130	Instrument maker		X																									
4-41, 010	Job printer																											
5-23, 650	Joiner																											
5-23, 650	Joiner, quartermen																											
9-03, 30	Junior architect		X																									
5-17, 210	Loftsman																											
4-75, 010	Machinist, armament																											
0-88, 24	Marine engineman		X																									
7-70, 210	Marine fireman		X																									
5-24, 010	Mason, brick or stone		X																									
4-91, 411	Melter, electric																											
4-91, 444	Melter, open hearth		X																									
4-33, 914	Millman																											
4-81, 010	Molder																											
7-08, 032	Optical parts inspector		X																									
4-82, 481	Ordnanceman																											
9-65, 45	Packer																											
5-17, 010	Patternmaker																											
5-33, 110	Pipe coverer and insulator																											
5-30, 010	Pipe fitter		X																									
5-94, 160	Pipe line foreman (dredger section)																											
5-29, 106	Plasterer		X																									
7-57, 511	Press operator																											
6-88, 622	Puncher		X																									
5-83, 941	Refrigeration mechanic		X																									

FIFTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, MIAMI, FLA.

[illegible]

Employee must also perform the duties of an elevator mechanic.

POST OFFICE DEPARTMENT, POST OFFICE, MEMPHIS, TENN.

[illegible]

FIFTH REGION—Continued

WAR DEPARTMENT, AUGUSTA ARSENAL, AUGUSTA, GA.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST					
				AMPUTATIONS								DISABILITIES																	
				Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind		Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis
4-86.010	Blacksmith							X	X	X							X	X											
7-97.010	Blacksmith apprentice, heavy fires																												
7-97.010	Blacksmith apprentice, other fires	X																											
7-97.010	Carpenter	X																											
5-25.110	Carpenter foreman																												
5-25.110	Checker, under	X																											
1-18.66																													
7-97.040	Coppersmith apprentice																												
0-48.18	Draftsman																												
4-97.010	Electrician	X																											
7-95.100	Electrician apprentice	X																											
4-97.420	Electrician, senior	X																											
7-70.040	Fireman, stationary boiler	X																											
2-61.03	Guard																												
4-76.210	Instrument repairman																												
7-93.560	Joiner apprentice	X																											
8-52.41	Laborer, classified																												
9-64.44	Laborer, unclassified																												
6-78.083	Machine operator																												
6-88.624	Machine operator																												
4-75.120	Machinist	X																											
7-94.100	Machinist apprentice	X																											
7-81.010	Mechanic helper, general	X																											
7-96.050	Molder apprentice																												
4-75.130	Molder apprentice	X																											
5-08.066	Optical instrument assembler																												
7-08.032	Optical instrument finisher																												
7-08.032	Optical parts inspector																												
5-27.010	Painter	X																											
7-99.832	Patternmaker apprentice																												
5-30.210	Plumber																												

SIXTH REGION

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, FALLER BLDG., CINCINNATI, OHIO

Code	Title of position	Building guard 1	Depth perception required	Color vision required	ORTHOPEDIC																EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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2-61.03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

¹ These building guards do not carry arms. Primary duty is to log incoming and outgoing visitors, to check employees for badges and to make routine inspection trips when on night duty for fire and safety purposes. Work is not arduous and involves standing, walking, writing, and using the telephone. Force is seldom required. Moderate hypertension, arrested tuberculosis, minor disabilities of the spine and disabilities of the lower extremities not impairing function to a great degree would be acceptable. Moderate or marked varicosities are disqualifying.

INTERIOR DEPARTMENT, MAMMOTH NATIONAL PARK, MAMMOTH CAVE, KY.

0-68.22	Fire guard ¹	X	X																	X
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¹ Works in a fire tower 80 feet high, reached by flights of stairs. Enclosed room on top is 7 feet square. Uses alidade for finding location of fire and uses binoculars. Reports in by telephone and may receive orders in a like manner. Is called upon to do other work such as sharpening instruments, digging ditches, cutting brush and assisting in repairing structures. The 3 categories in this job are tower guard, roving guard, and dispatcher and all positions are interchangeable, the dispatcher usually being selected by promotion. The roving guard drives an automobile. When on tower duty, the fire guard is isolated from contact with others except by telephone. He lives in a nearby rustic-built cabin containing 1 room. Fire guards are required to carry hand back-pumps weighing about 50 pounds, must be able to use fire rakes, brush hooks, axes, and saws. Such work is arduous in nature and requires relatively full physical vigor. Arrested minimal tuberculosis, loss of hearing in 1 ear and moderate hypertension would not be disqualifying.

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS, NATIONAL ADVISORY COMMITTEE ON AERONAUTICS AIRPORT, CLEVELAND, OHIO

5-80.100	Aircraft mechanic, junior	X																		X
9-65.43	Aircraft mechanic, helper ¹	X																		X
5-80.100	Aircraft engine mechanic, bench	X																		X
5-80.100	Aircraft engine mechanic, plane ²	X																		X

¹ For usual shop or bench work, physical requirements can be lenient, but where all around aviation work is to be done, the requirements must be higher. Good functional flexibility of both hands is required in any case. Where installation and repair work is to be done, the lower extremities must be in good condition and at least 20/40 vision and hearing No. 2 should be required in both eyes. Organic heart disease, moderate hypertension, varicose veins, hernia, unless small and well supported by a truss, and neurological conditions should disqualify. Hearing is of lesser importance as these men are not engine mechanics, but the extra occupational hazards of the industry must be considered.

Two possible types are present, one bench and shop work, the other installation and

NAVY DEPARTMENT NAVAL AMMUNITION DEPOT, CRANE, IND.

[illegible]

¹ This position entails the delivery of small items, primarily first-class mail. While the area is large the processing of mail is decentralized and messengers deliver in relatively small areas. Buildings are usually single storied involving but little stair climbing.

² All guards are armed necessitating emotional stability. There are 3 rotating shifts and the positions may be rotated although employees may be kept on a particular job.

NAVY DEPARTMENT, INSPECTORS OFFICE OF NAVAL MATERIAL, CINCINNATI, OHIO

[illegible]

¹ Employee inspects leading edge of airplane stabilizer, wing or elevator (practically full visual inspection). Inspector holds small electric lamp in one hand and a fabric mirror in the other and views the rivets in the depths of the fabricated part. Fabric surfaces and doped and painted surfaces are also inspected. Work is done standing. If the production were large enough, trimming balance tabs could be inspected sitting. No arduous work is involved. Deaf mutes are acceptable. Occasionally inspector enters airplane shop but never for a prolonged period and no real hazard exists. Hernia, supported by a truss, moderate hypertension, organic heart disease (compensated), minor skeletal defects, or loss of lower limb (with adequate prosthesis) would not disqualify.

Employee inspects the parts and completed articles of fabricated metal and galvanized articles such as GI cans, depth bombs and demolition cans. Some of these articles are large, bulky, and may weigh up to 80 pounds. Certain phases of inspection (testing the wiring of portions of mines) require the use of both hands. Prolonged staring and walking, or most of time, standing (with adequate rest periods) would not be unusually strenuous.

repair in planes. The former permits some relaxation of physical requirements but the latter requires good physical capacity. Work is arduous and involves good hand functions (bilateral). Employees must be well proportioned and agile as the work is frequently done at elevations and in cramped quarters. Binocular vision is to be preferred, but some persons with monocular vision could be employed. Hearing should be acute in at least 1 ear. Organic heart disease, moderate hypertension, marked varicoseles, and hernia unobscured small and well supported by a truss should be disqualifying. Any marked defect interfering with functions of extremities, or torso, or any neurological condition should be cause for rejection.

Limited duty employees are usually placed on duty at the housing project. Three fire towers are manned and several radio cars are used but all applicants need not have the ability to drive. Tower duty and driving would require physical standards of a higher level than those listed here.

ing is involved. Compensated heart disease, arrested tuberculo, moderate hypertension, hernia supported by a truss, or impaired hearing will not disqualify an employee. Inspectors, generators, pumps, and similar equipment. While the work is not continuously arduous the inspector is often called to lift weights (up to 80 pounds); he stands for long periods of time and walks over large areas; he may have to bend to observe test runs. Good primary hand and functioning secondary hand are necessary. Lower extremities must be functionally good. Due to the nature of the work, production line inspection is almost impossible.

⁴ Under inspectors could be deaf or deaf mutes. Employee inspectors small fabricated parts (plastic material) which are usually light in weight. Occasionally, they may be called upon to inspect plastic sheet, 36 by 42 inches, which may weigh about 201 pounds. Work is light and under proper conditions could be done sitting. Working conditions at this plant involve exposure to dust, noise, at formalin odor. Under other conditions

handicapped persons possessing 1 good eye and 1 fairly useful upper extremity could do the work required.

⁵ Employee inspects pontoons fabricated of steel about 6 by 4 by 7 feet. Work primarily is visual inspection, and performed in semioutdoor conditions. It involves walking and prolonged standing where structural steel construction work is being done. Hearing should be acute enough to hear signals. Little actual manual work is required. Occasionally, the inspector is called upon to mount rather small ladders to observe pressure tests. He also climbs into or onto railroad cars to inspect the loading of the pontoons.

A 1-armed person should be capable of performing the job but 2 good legs are required.

⁶ Duties involve inspection of component parts, fabrication, and the testing of fire flares and other types of pyrotechnical products. Work is not arduous and is primarily visual inspection but the hazards are rather serious, and fires and explosions occur. These may jeopardize life, limb, and sight; therefore, binocular vision should be required. As speedy movement may be needed, good functioning lower extremities are essential; moderate hypertension and compensated heart disease would be hazardous; hernia, supported by a truss, or the loss of 1 hand or arm would not disqualify.

⁷ Duties include inspection of sheet and galvanized steel and observation of various

chemical and physical tests. Inspection, primarily visual, both of the product and above tests. Although the use of a micrometer in gaging thickness is involved, a 1-handed person could do this procedure. Plant is semiopen and is therefore cold in winter and hot in the summer. No unusual hazards exist except those due to over-head cranes and hearing must be good enough to perceive the warning signals. Loss of 1 arm or 1 hand, compensated heart disease, moderate hypertension, hernia supported by a truss, minor skeletal defects, and color-blindness would not disqualify.

⁸ Employee inspects 2 targets made of rope, metal, and rayon. In this particular plant work involves walking up and down steep steps. Arrested tuberculosis, hernia supported by a truss, loss of 1 eye, loss of 1 arm or moderate hypertension would not disqualify. Hearing with or without aids, should be good enough to permit conversation with contractor's representatives.

⁹ Employee inspects valves, varying in size from a few ounces to about 35 pounds. Inspection, primarily visual, although occasionally some grasping and twisting is involved. Inspector observes various physical, chemical and laboratory tests made by the contractor. Work is light and numerous physical disabilities would be acceptable. In this plant walking and climbing steps are required.

SIXTH REGION—Continued
POST OFFICE DEPARTMENT, POST OFFICE, IRVINGTON STATION, INDIANAPOLIS, IND.

POST OFFICE DEPARTMENT, POST OFFICE BLDG., INDIANAPOLIS, IND.

[illegible]

¹ Light cleaning duties such as dusting, waxing, and polishing floors with light mop. Also washes floor using mop and hand wringer. Lower extremities should be functional. Good and marked varicosities is disqualifying.

² With small clerical force employee may be called upon to do the various operations connected with office work. Many disabilities acceptable, but lower extremities should be good enough to permit fair walking capacity (loss of limb replaced by well-functioning prosthetic appliance acceptable).

³ Position is interchangeable with that of window clerk, desk clerk, and mail handler and employee is required to lift weights up to 70 pounds.

⁴ Administrative position. Assigns work and goes on tours of duty through building to see that work is adequately performed. Lower extremities must be functionally good. Hearing must be adequate for conversational and telephone voice.

⁵ Employee maintains and repairs the elevator system. All motors, dynamos, relays, cables, and the cars themselves are worked on by this employee. Work may be hazardous, as employee works in the shaft, on top of the cars, or on girders adjacent to them.

⁶ Automatic elevators are in operation which require operator to push a button with a finger, following which control lever is moved forward or backward, then the elevator ascends or descends to the proper floor, the doors opening and closing automatically. Employee may use stool and thus avoid periods of prolonged standing.

⁷ Works as a member of maintenance crew in keeping heat, light, and ventilating equipment in good operating order.

⁸ Supervisory position involving the assignment and supervision of custodial positions. Must be able to walk, climb ladders and stairs.

⁹ In this category falls a variegated functioning group of employees who mop, clean, sweep, wash windows, wash walls, paint walls, maintain hedges and lawn, move furniture, all of which are arduous duties.

¹⁰ This employee assigns tasks and supervises work of the laborers and does not have to do actual work. Prolonged standing and walking is involved. He occasionally climbs ladders and inspects scaffolds for safety. Moderate hyperextension, disabilities of fingers, wrist, shoulder, and spine are not disqualifying. Adequate hearing for ordinary conversation and telephone conversation with or without hearing aid is required.

¹¹ Position requires that the employee handle sacks or pouches of mail and parcels loaded that he lift such loads (maximum about 75 pounds) and wheel tubs and carts loaded with such packages.

¹² Employee maintains mail boxes, standards, dollies, tubs, electrical clocks, adding machines, typewriters, scales, and other Post Office equipment. Some of the work is heavy (mail box repair) and other work may be light. Worker must have good manual dexterity and lower limbs must be functionally good (loss of part of 1 lower extremity replaced by functionally good prosthesis acceptable). Must have motor vehicle operation vision, as he is required to pick up and deliver mail boxes to be repaired or painted.

¹³ Employee cleans, polishes, and maintains marble in the building other than that on the floors. Work involves use of ladders and occasionally scaffolds necessitating agility, good function of lower extremities and good sense of equilibrium. Extremities and spine must be functionally good.

¹⁴ Good functioning upper extremities required while lower extremities need only be good enough to get employee to and from work. Hearing must be good and speech clear.

POST OFFICE DEPARTMENT, POST OFFICE GARAGE, INDIANAPOLIS, IND.

Code	Title of position	Depth perception required		Color vision required		ORTHOPEDIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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¹ Does general repair work of motor vehicles and at times is required to drive trucks.² Assists in general repairs of motor vehicles and at times is required to drive trucks.³ Performs duties of janitor, fireman, car washer, greaser, and gas attendant. Is also required to drive vehicles.

POST OFFICE DEPARTMENT, POST OFFICE, LIBERTY, IND.

1-28.01	Carrier, rural ¹																									
1-28.01	Carrier, village ²	X	X	X	X																					
1-27.10	Clerk, village ³	X	X	X	X																					
2-84.10	Fireman-janitor ⁴																									

¹ This position involves the following work: Sorting mail, tying small bundles of mail, stowing them in the car, driving and the placing of mail and parcels in the rural boxes. The work is not usually arduous but parcel weighing up to 70 pounds is handled. Minor disabilities of the hands, feet, or legs, moderate hypertension and compensated heart disease would not disqualify. Hearing must be adequate for normal conversation (with or without hearing aid) and speech must be clear.

² Duties comparable to those of city carrier but the distances traveled are usually greater, this route averaging about 12 to 13 miles per day. All parcel post is carried even

though it may exceed the usual carrier limits of 4 pounds and shoe-box size. Torso and extremities must be functionally good although minor disabilities may be permissible.

³ In second-class post offices the duties of the clerk are varied and require window work, casing mail, tying out, and dispatching. The work is not consistently arduous in character but involves prolonged standing.

⁴ This position combines the duties of fireman and janitor-charman and may involve arduous work, such as washing walls and windows. This work compels the employee to work on ladders and at some height.

SIXTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, LOUISA, KY.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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¹ This is a strenuous position because of the road conditions. Route is 47 miles long, 21 miles of which is dirt roads of the poorest quality. Slight rains and thaws make the roads almost impassable and the carrier must use shovel and mattock to dig himself out of the ruts. This route is in the foothills of the mountains.
² Maximum weight carried is 50 pounds. Average weight load is 25 pounds. Packages up to 4 pounds are delivered by carrier. Work involves flexibility of the upper extremities and strong, well-functioning lower extremities. The load and tempo is somewhat less

than that of the city carrier and there is no motor-vehicle operation. The amount of walking is about 14 miles per day.
³ Prolonged standing by a well-functioning prosthesis would not be disqualifying. Extremity replaced by a well-functioning prosthesis would not be disqualifying. Extremities and torso should be functionally good. Minor disabilities of the secondary hand are permissible, but grip should be good. The employee sacks and dispatches mail and works at windows.

POST OFFICE DEPARTMENT, POST OFFICE, JOHN STREET BLDG., CINCINNATI, OHIO

5-81. 510	Automobile blacksmith																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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¹ The work is relatively nonarduous but requires functionally good extremities, especially hands.
² No spray painting involved.
³ Helps with mechanical repairs of motor vehicles and is sometimes called upon to

drive. May be required to do lifting up to 100 pounds.
⁴ Does general helper duties in garage as well as janitorial work. Is called upon to drive vehicles in and out of garage. May lift weights up to 100 pounds.

POST OFFICE DEPARTMENT, POST OFFICE, LOCKLAND STATION, CINCINNATI, OHIO

Code	Title of position	ORTHOPEDIC														EYES		EARS		CHEST					
		Arm	Hand	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis	
		Arm	Hand	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Back	Hips or shoulders								
		Arm	Hand	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Back	Hips or shoulders								
1-28. 01	Carrier, rural 1	X	X			X				X					X										

¹ The work involves the sorting of mail and parcels preparatory to delivery and the actual delivery. Parcel-post limits of 70 pounds are handled. The work is not arduous but requires agility, speed, good motor-vehicle driving ability, good torso and well functioning extremities. Moderate hypertension, arrested tuberculosis and compensated heart disease permissible. Amputation of 1 lower extremity replaced by a well functioning prosthesis acceptable if applicant demonstrates drivability.

POST OFFICE DEPARTMENT, POST OFFICE ANNEX, CINCINNATI, OHIO

	1-27. 10	1-28. 01	1-29. 01	1-30. 01	1-31. 01	1-32. 01	1-33. 01	1-34. 01	1-35. 01	1-36. 01	1-37. 01	1-38. 01	1-39. 01	1-40. 01	1-41. 01	1-42. 01	1-43. 01	1-44. 01	1-45. 01	1-46. 01	1-47. 01	1-48. 01	1-49. 01	1-50. 01	1-51. 01	1-52. 01	1-53. 01	1-54. 01	1-55. 01	1-56. 01	1-57. 01	1-58. 01	1-59. 01	1-60. 01	1-61. 01	1-62. 01	1-63. 01	1-64. 01	1-65. 01	1-66. 01	1-67. 01	1-68. 01	1-69. 01	1-70. 01	1-71. 01	1-72. 01	1-73. 01	1-74. 01	1-75. 01	1-76. 01	1-77. 01	1-78. 01	1-79. 01	1-80. 01	1-81. 01	1-82. 01	1-83. 01	1-84. 01	1-85. 01	1-86. 01	1-87. 01	1-88. 01	1-89. 01	1-90. 01	1-91. 01	1-92. 01	1-93. 01	1-94. 01	1-95. 01	1-96. 01	1-97. 01	1-98. 01	1-99. 01	1-100. 01	1-101. 01	1-102. 01	1-103. 01	1-104. 01	1-105. 01	1-106. 01	1-107. 01	1-108. 01	1-109. 01	1-110. 01	1-111. 01	1-112. 01	1-113. 01	1-114. 01	1-115. 01	1-116. 01	1-117. 01	1-118. 01	1-119. 01	1-120. 01	1-121. 01	1-122. 01	1-123. 01	1-124. 01	1-125. 01	1-126. 01	1-127. 01	1-128. 01	1-129. 01	1-130. 01	1-131. 01	1-132. 01	1-133. 01	1-134. 01	1-135. 01	1-136. 01	1-137. 01	1-138. 01	1-139. 01	1-140. 01	1-141. 01	1-142. 01	1-143. 01	1-144. 01	1-145. 01	1-146. 01	1-147. 01	1-148. 01	1-149. 01	1-150. 01	1-151. 01	1-152. 01	1-153. 01	1-154. 01	1-155. 01	1-156. 01	1-157. 01	1-158. 01	1-159. 01	1-160. 01	1-161. 01	1-162. 01	1-163. 01	1-164. 01	1-165. 01	1-166. 01	1-167. 01	1-168. 01	1-169. 01	1-170. 01	1-171. 01	1-172. 01	1-173. 01	1-174. 01	1-175. 01	1-176. 01	1-177. 01	1-178. 01	1-179. 01	1-180. 01	1-181. 01	1-182. 01	1-183. 01	1-184. 01	1-185. 01	1-186. 01	1-187. 01	1-188. 01	1-189. 01	1-190. 01	1-191. 01	1-192. 01	1-193. 01	1-194. 01	1-195. 01	1-196. 01	1-197. 01	1-198. 01	1-199. 01	1-200. 01	1-201. 01	1-202. 01	1-203. 01	1-204. 01	1-205. 01	1-206. 01	1-207. 01	1-208. 01	1-209. 01	1-210. 01	1-211. 01	1-212. 01	1-213. 01	1-214. 01	1-215. 01	1-216. 01	1-217. 01	1-218. 01	1-219. 01	1-220. 01	1-221. 01	1-222. 01	1-223. 01	1-224. 01	1-225. 01	1-226. 01	1-227. 01	1-228. 01	1-229. 01	1-230. 01	1-231. 01	1-232. 01	1-233. 01	1-234. 01	1-235. 01	1-236. 01	1-237. 01	1-238. 01	1-239. 01	1-240. 01	1-241. 01	1-242. 01	1-243. 01	1-244. 01	1-245. 01	1-246. 01	1-247. 01	1-248. 01	1-249. 01	1-250. 01	1-251. 01	1-252. 01	1-253. 01	1-254. 01	1-255. 01	1-256. 01	1-257. 01	1-258. 01	1-259. 01	1-260. 01	1-261. 01	1-262. 01	1-263. 01	1-264. 01	1-265. 01	1-266. 01	1-267. 01	1-268. 01	1-269. 01	1-270. 01	1-271. 01	1-272. 01	1-273. 01	1-274. 01	1-275. 01	1-276. 01	1-277. 01	1-278. 01	1-279. 01	1-280. 01	1-281. 01	1-282. 01	1-283. 01	1-284. 01	1-285. 01	1-286. 01	1-287. 01	1-288. 01	1-289. 01	1-290. 01	1-291. 01	1-292. 01	1-293. 01	1-294. 01	1-295. 01	1-296. 01	1-297. 01	1-298. 01	1-299. 01	1-300. 01	1-301. 01	1-302. 01	1-303. 01	1-304. 01	1-305. 01	1-306. 01	1-307. 01	1-308. 01	1-309. 01	1-310. 01	1-311. 01	1-312. 01	1-313. 01	1-314. 01	1-315. 01	1-316. 01	1-317. 01	1-318. 01	1-319. 01	1-320. 01	1-321. 01	1-322. 01	1-323.
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¹ Clerks working first-class mail handle light weights which require manual dexterity. Prolonged standing is involved. Clerks on primary cases are not required to swing their mail and could have amputations of lower extremity providing that a good functional prosthetic appliance replaced it.

² This job classification is broad and the duties are varied, some being relatively non-arduous (driver of electrical donkey) but the majority being arduous in nature. The employee handles sacks of mail and parcel post which weigh from 50 to 70 pounds but may run to 100 pounds.

3 While the position is primarily supervisory in nature the foreman is a working foreman who is required to assist workers or do the work himself. He is in charge of a crew

consisting of welder-machinists, carpenters, carpenter's helper, conveyor mechanics, painters, cancellation machine mechanics and mail-box mechanics. The weights lifted may run high and the workers circulate in the shop at several jobs. All are supposed to be able to drive as they may be called upon to service equipment in the several substations or on routes. Repairs are made on small office equipment, sales, mail boxes, and other post-office equipment including the conveyor system.

The work is not arduous in a sustained manner but the clerk is called upon to handle weights up to 100 pounds. Moderate hypertension, arrested tuberculosis, compensated heart disease, and minor disabilities of the hands and upper extremities are not disqualifying but lower extremities must be functionally good.

POST OFFICE DEPARTMENT, POST OFFICE BLDG., CINCINNATI, OHIO

[illegible]

¹ Chief and assistant clerks are required to do all-around clerical work; duties involve writing, telephoning, typing and filing.

² The work is not fundamentally arduous in character but applicant must possess a well functioning torso and extremities, and average agility. Work is both bench and building in type, the latter being minor jobs as the major work is done by contract.

³ Work done involves lighter type of cleaning, including dusting, wiping, sweeping, and occasionally mopping. Primary hand must be good, but secondary hand may have disabilities, providing functional grip is good.

⁴ This position is an administrative one and requires little in the way of physical capacity. Moderate hypertension, compensated heart disease, hernia and arrested tuberculosis would not be disqualifying. Tours of inspection require the applicant to be able to walk well enough to get around the building. Impaired hearing improved by a hearing aid to make average conversation audible would be permissible.

⁵ Work not ordinarily arduous but agility is a requisite. Because the employee is required to work on ladders and scaffolds, moderate hypertension and organic heart disease are considered too hazardous.

⁶ This position involves the maintenance and repair of the elevators, both freight and passenger, and is primarily composed of 2 types of work: that done around the motors, switchboards, and relays and that actually done on the elevators. Involves climbing around in and on the cars and in the hatch or shaft. Little actual heavy lifting is required; therefore supported hernia would be acceptable. Loss of 1 eye may be tolerated but 2 eyes are preferred; agility and adequate extremity functions are essential.

⁷ These elevators are automatic. Buttons are pushed for floor stops and a hand-control lever starts the elevator whereupon the doors are opened or closed and the elevator rises or lowers to the proper floor and the doors open automatically. There are stools that the operator can use but these are practical only during the slack periods, therefore the operator may have to stand for relatively long periods thereby making marked varicosities a cause for rejection.

⁸ Occasionally the starter may have to substitute for the operator but the above disabilities would still be permissible. The applicant must be capable of performing prolonged standing; therefore marked varicosities would be disadvantageous. These men work in drafty halls during the winter months and it would be inadvisable to permit individuals receiving pneumothorax to do this work.

⁹ This employee operates and maintains the sundry equipment connected with steam operations. The work is varied in character and therefore requires that the worker be capable of performing arduous and complicated work.

¹⁰ Work is primarily administrative but in emergencies the employee may be called upon to inspect boilers and contribute work in making repairs. In such cases the physical requirements are much more rigid necessitating full function of all extremities. Where a large engineering force exists the more lenient requirements may be in force. Inspection work may call the employee out of the building and thus expose him to marked temperature changes. Under all circumstances, good functioning lower extremities are required. Minor disabilities of either hand or arm, loss of 1 eye and impaired hearing corrected by hearing aid would not be disqualifying.

¹¹ This work is arduous in nature and involves all of the heavy work that may be done around a boiler room. The employee loads the coal, transports it to the stoker, weighs the coal, loads the stoker, watches the operation of the boiler, assists in making the necessary repairs and may be called upon to do any of the manual labor required in making repairs throughout engine room's sphere of operation. Varicosities, hernia, compensated heart disease, moderate hypertension and arrested tuberculosis would be disqualifying.

¹² Employee performs primarily administrative duties and supervises the activities of custodial workers. He must be able to walk around the building on inspection tours, use elevators, and occasionally use stairs. Work is not arduous and includes reading of directives, filling out reports, keeping time cards, and supervising work. Mild hypertension, compensated heart disease, arrested tuberculosis, and disabilities of knee, elbow, shoulder, hip, or spine would not be disqualifying.

¹³ This is a category that because of its variations offers a great variety of sets of physical requirements, ranging from the very strict to the very easy. The requirements listed above are considered the average for the large classification. When specific jobs are known specific requirements should be applied. A sweeper, duster, and brass polisher could be noticeably handicapped and still perform the work adequately whereas a painter helper would, of necessity, need to possess well functioning extremities. Roustabout work prevents the use of hypertensives, cardiacs, and persons who have hernia.

¹⁴ Employee replaces burnt-out electric bulbs and cleans the lighting fixtures and globes. Both legs must be functionally good as there is much walking and ladder climbing. Both arms must be functionally good. Arrested tuberculosis, supported hernia and impaired hearing would not be particularly handicapping.

¹⁵ Work is primarily supervisory. Duties include the inspection of supplies and the proper operation of rest rooms and lavatories.

¹⁶ Duties involve patching, repair painting, wall washing, and the maintenance and repair of the building and loading platform roofs. Extremities and torso must be functionally good as work involves use of ladders, boards, and scaffolds. Frequently assists carpenter in jobs requiring 2 persons.

¹⁷ Employee is attached to the engine-room group and acts not only in the capacity of plumber but also as a steam fitter and assists in any boiler-room activity. Work is arduous, therefore hernia, moderate hypertension and compensated heart disease are disqualifying.

¹⁸ Work is sedentary; lower limb defects would not militate against employment providing employee is able to get to and from work. Finger, hand, elbow, and shoulder joints of both upper extremities should be functionally good as a busy board requires the use of both hands. Nervous system should be stable as there is a rapidity of action yet a monotony which probably is wearing on the nervous system.

¹⁹ Duties are hazardous and require that a person be well-proportioned and agile and that he possess all of his faculties. Compensated heart disease and moderate hypertension are disqualifying. Arrested tuberculosis is permissible but persons undergoing pneumothorax would not be particularly good risks as the employee is required to work outside in all kinds of weather and the work may not permit him to be clothed adequately.

Code	Title of position	Depth perception required	ORTHOPEDIC																					EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Pulmonary tuber-
culosis

¹ Assists automobile mechanic in repairing of trucks and automobiles and is sometimes required to drive, load, and unload vehicles.

² Sometimes required to drive, load and unload vehicles.

³ Repairs furniture and working tables, and helps with general carpenter work.

⁴ Is required to perform arduous duties, climb ladders, work in cramped positions, and may walk alone catwalks.

⁵ Adequate vision and manual dexterity are the chief requirements. The work is relatively light. A slight amount of walking is required and the work is done in a standing position, but this should not preclude the use of persons with disabilities or loss of 1 lower extremity.

⁶ Employees in this classification perform the lighter types of cleaning operations, i. e., dusting, waxing desks, polishing furniture, lighter sweeping, and comparable work. They may occasionally be called upon to mop limited areas. Light mops are used together with castored water carriers and automatic foot or hand wringers. Lower extremities must be functionally good. Minor disabilities of the upper extremities, loss of 1 eye, impaired hearing, arrested tuberculosis, moderate hypertension and compensated organic heart disease are not disqualifying.

⁷ Employee performs duties ordinarily required of clerical help, filing and typing. Some positions may be almost completely sedentary, others require a certain amount of walking for filing purposes, but a well-functioning lower prosthesis should suffice.

⁸ Sedentary position permitting numerous disabilities. Must be able to hear well enough to carry on conversations over telephone.

⁹ Drives trucks and is sometimes required to help load and unload them.

¹⁰ Performs various electrical repair duties some of which are arduous. Works in close quarters, climbs ladders, and walks along catwalks.

¹¹ Performs general repairs of elevators under supervision of the principal mechanic. Work is arduous and hazardous.

¹² This employee is a working supervisor of elevator mechanics. The work is arduous and involves working in drafty shafts and under hazardous conditions.

¹³ Elevators in old building are not automatic and operators need both hands to operate and to open and close doors. In the new building elevators are completely automatic and upper extremities are used only to push buttons and operate hand control. Operators may use stools when tired of standing.

¹⁴ This position involves prolonged standing and walking. Operates and maintains boiler-room equipment. Is in charge in absence of engineer. Duties are arduous.

¹⁵ Chief of maintenance crew and is primarily administrative officer. Work is not arduous but involves standing, walking and climbing in tours of inspection and direction of work.

¹⁷ Is in charge of the boiler room and is responsible for upkeep of all equipment.

¹⁸ This position is a combination of duties, guard by day and watchman by night. Work is not arduous but involves prolonged standing and walking. Alertness and physical capacity to meet emergencies is required. The guard-laborer requirements are identical. The duties involve actual laborious work in addition to guard or watchman duties. Varicose veins would be aggravated and cause disability in proper performance of duties.

¹⁹ Supervisory position permitting numerous disabilities.

²⁰ This employee works in Railway Mail Service. Work is arduous in nature and requires the employee to be able to handle, tie-out, rack-up, and aid in dispatching mail pouches. Also handles outside parcel post. Loads and unloads trucks in terminals. On road assists clerks in the handling of mail.

²¹ Position requires that the employee be capable of performing arduous duties, usually those connected with the cleaning of the building, i. e., mopping, sweeping, washing walls and windows. These workmen may be called upon to assist skilled workers doing work requiring helpers. Loss of 1 eye, impaired hearing and minor disabilities of the secondary hand permissible.

²² Assigns tasks to laborer crews and sees that such tasks are performed satisfactorily. Work is primarily administrative although not completely sedentary for employee makes tours through building observing and directing the work being done. Applicant must be capable of walking, although disabilities or loss of 1 lower extremity (replaced by functioning prosthesis) should not be disqualifying.

²³ Employee repairs and paints mail boxes. He must drive a truck in the pick-up and delivery of mail boxes. Concrete posts, metal posts, and large storage boxes are heavy and require person capable of performing arduous duty to handle them.

²⁴ Under present circumstances the functions of the general title "clerk" are greatly varied, including desk work, window work, casing mail, and dispatching, which may be laborious. Usually the work involves prolonged standing and good functional use of the upper extremities, although minor disabilities of the secondary hand are permissible.

²⁵ Light duty position, administrative and chiefly sedentary in nature, supervising the station's property and maintenance. Motor-vehicle operation vision required. Should be able to walk adequately. Disabilities or loss of 1 hand or 1 arm, disabilities of wrist, elbow, shoulder or spine, moderate hypertension and organic heart disease are not disqualifying.

²⁶ Work is sedentary in nature. Lower extremities need only be capable of getting employee to and from work. The function of torso and upper extremities must be good. Hearing should be good for telephone conversation and speech must be clear and distinct.

WAR DEPARTMENT. FORT BENJAMIN HARRISON, IND.

Work is not arduous but requires agility and free usage of hands and arms, torso, and legs.

WAR DEPARTMENT, JEFFERSONVILLE. QUARTERMASTER DEPOT, JEFFERSONVILLE, IND.

³ The duties include bench and stoker work and are frequently arduous, requiring the handling of parts weighing from 100 to 300 pounds. The latter segments are used in the construction of aircraft. Good coordination between the hands and fingers, functioning of the many hand muscles, and the ability to work at ground-floor or split level but may involve working in boilers, fireboxes, or other restricted places; therefore, torso and torso must be in good functional condition.

¹⁵ The employee must be able to work above the ground on ladders, trestles and catwalks; therefore, hands, arms, torso, and legs must be in good functional condition. Some of the work may be bench work, but the majority of the work is installation and repair. Agility is of prime importance. Small hernia well supported by a truss need not be disqualifying. Binocular vision is preferred, due to the hazards.

¹⁶ This work is light in character and usually does not require lifting over 20 pounds. Prolonged standing is involved. An artificial lower limb would be acceptable if functionally good. Both hands and arms should be functionally good. Fumes are encountered during the adjustment of burners.

¹⁷ Work is not arduous. Employee must be able to stand for long periods. The inspec-

tion of some large ranges may require the use of small stepladders or stools; otherwise the work is done at floor level.

¹⁸ Where this position is purely dispatching, the requirements can be lowered and the loss of 1 arm and hand or the loss of a lower limb would not interfere with performance of duties. The dispatcher is occasionally called upon to substitute for a driver, and higher requirements may be necessary. In general, the work is sedentary and requires normal enunciation and normal hearing for telephone conversations.

¹⁹ The work involves inspection of wood and fabricated products made of wood and is not arduous. It does require prolonged standing and walking. Color vision should be normal, preferably for shades. While the possession of all extremities is preferred, the employee could do the work with 1 upper and 1 lower extremity.

SIXTH REGION—Continued

WAR DEPARTMENT, JEFFERSON PROVING GROUNDS, MADISON, IND.

Code	Title of position	X	X	ORTHOPEDIC																								EYES	EARS	CHEST	X	
				AMPUTATIONS												DISABILITIES																
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye					Deaf
5-53. 420	Lineman-electrician ¹																															

¹ This position combines the duties of a lineman and an electrician, and the requirements are therefore high, since the work is both arduous and hazardous. Pole climbing and high-tension tower climbing is done, thus combining the hazards of height and high

currents of electricity, and every effort should be made to maintain a high standard for physical requirements.

WAR DEPARTMENT, FORT KNOX, KY.

1-38.01	Storekeeper, motor parts ¹									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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¹ Parts handled vary greatly in size and weight, but the heavy objects are handled by blocks and cranes.

WAR DEPARTMENT, LEXINGTON SIGNAL CORPS DEPOT, LEXINGTON, KY.

1-23.14	Messenger ¹		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-61.03	Patrolman ²																														

¹ They may occasionally be called upon to lift packages weighing up to 35 pounds. It is therefore preferred that about 50 percent of the employees be capable of performing relatively arduous work. Loss of 1 eye, impaired hearing in 1 ear, moderate hypertension, compensated heart disease, supported hernia, loss of 1 hand or arm and other minor disabilities would not be disqualifying.

² All are armed. Jobs rotate and shifts rotate. Work involves foot patrol and vehicle driving, sentry box and outside posts, and warehouse inspection. The following are permissible disabilities: Blind in 1 eye, impaired hearing in 1 ear, supported hernia, moderate hypertension, arrested tuberculosis and minor disabilities of the secondary hand.

SIXTH REGION—Continued

WAR DEPARTMENT, U. S. ENGINEERS, MELBOURNE, KY.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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				Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers	Leg	Foot	Feet	Hips or shoulders																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
6-75.410	Drill runner	X													X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

WAR DEPARTMENT, U. S. ENGINEERS, DAM 36, SILVER GROVE, KY.

5-49. 104	Lockman ¹	X	X																				X
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¹ This position requires that the employee be in good physical condition, capable of performing arduous work under rather hazardous conditions. Vision should be correctible to 20/30 in 1 eye and 20/100 in the other eye. Basic saturated colors must be discernible. Hearing should be at least 15/20 in 1 ear. Both legs and arms are necessary for performance.

WAR DEPARTMENT, ENGINEER DEPARTMENT, CINCINNATI, OHIO

6-59. 364	Buffer ¹																							
8-78. 10	Mechanical machinist helper ²																							
8-78. 10	Mechanic helper, general ³	X	X																					
5-92. 561	Overseer plant electroplating ⁴																							
7-86. 136	Packer ⁵																							
6-77. 060	Polisher ¹																							

¹ The chief industrial hazard in this work is from dusts and therefore applicants must be free from respiratory diseases. Allergy should be sought for in the medical history of applicant. Primary hand must be in good functional condition and secondary hand may have some defects providing that they are not too incapacitating. Vision should be 20/30 in 1 eye and hearing should be at least 10/20 in 1 ear so that shouted commands can be heard. Function of neck and torso should be good. Mild hypertension and hernia supported by a truss should not disqualify, but varicosities would be exaggerated by work of this nature.

¹ This position involves work of arduous nature and requires good physical condition. Monocular vision suffices, and impaired hearing may be considered in placement. Good functional hands, arms, and upper torso are required. Slight to moderate deformities involving the lower extremities should not disqualify providing there is good stability of stance.

² Employee must be in good health and capable of performing arduous work. Small hernia well supported by truss should not disqualify. Auditory acuity not required. Visual acuity necessary in 1 eye only. Hypertension and organic heart disease would disqualify. Height and weight of no great significance except that the applicant must not be obese. Hands, arms, and lower extremities must be in relatively good functional condition.

³ The duties of this position may vary extensively. Shop carpenters may operate machines such as sanders, shapers, band saws and circular saws; their work would be on the ground floor level, whereas in construction, carpenters are required to climb ladders, work on scaffolds and on roofs. As a whole, this position requires good vision, with good functioning extremities and agility. Heart disease, hypertension, or neurological conditions impairing normal function of parts should disqualify. Hernia supported by well-fitting truss should not disqualify.

⁴ The truck seen in operation was a 6-cubic-yard dump truck. The usual clutch, brake, gear shift, and steering apparatus are used. In addition, there are hand levers in back of the driver which open or close the bottom of the dump truck. No marked physical exertion is needed in the operation, for it is mechanically loaded and dumped. Good vision, hearing, and color perception are required. Minor deformities—hand, feet, and legs should not disqualify. Sacro-iliac strain, lumbosacral involvement, recurrent lumbago or sciatica, marked scoliosis or kyphosis should disqualify. Small hernia supported by a truss should not disqualify. Varicosities, unless very severe should not disqualify.

⁵ Under normal operating conditions the work involved in this position is relatively light and consists primarily of supervising the operation of a Diesel motor; but in the event that repairs are necessary, the type of work becomes more strenuous, although it usually is not particularly arduous, for cranes or jacks are used for the heavy work. It may involve working in small, cramped spaces and require flexibility of the torso and all parts of the extremities. Monocular vision is all that is required. Normal hearing

in 1 ear would suffice. Hernia supported by well-fitting truss should not disqualify. The primary hand should be in good condition.

⁶ This position involves responsibilities, and errors in judgment or certain physical handicaps may result in loss of life or property damage. Signals are given which involve sight and hearing, therefore distant vision and hearing must be good. The actual operation of the boom does not require great strength, but the repair and maintenance of equipment may involve work which is arduous in nature. In addition, this position involves crawling to heights on the boom. Heart disease, hypertension, impaired vision, impaired hearing, or neurological conditions impairing reaction time should disqualify. Minor deformities of the hands and fingers, providing function is relatively good, should not disqualify.

⁷ This position is similar to classified laborer. It involves primarily helping the more skilled worker in operations, and the handy man should be capable of performing arduous labor.

⁸ This position involves arduous duty. The dust and physical exertion would be hazardous to a person with healed or arrested tuberculosis. Minor deformities of hands should not be disqualifying, providing the grip is good.

⁹ There are 2 distinct types of machinists, 1 production and the other maintenance. Production machine operation usually is not arduous duty and persons with hernia, supported by a truss, mild hypertension, compensated heart disease, or loss of 1 of the lower limbs, providing an artificial limb is worn, would not be disqualifying. Maintenance machinists should have higher requirements, as they are called upon to repair and maintain the machinery, which may involve working in cramped or unusual positions requiring agility and strength and a higher degree of manual dexterity.

¹⁰ The employee must have good functional use of his extremities and torso and must be capable of resisting the fatigue that frequently accompanies work of this nature. Vision should be at least 20/30 in 1 eye and 20/100 in the other, glasses permitted. Basic saturated colors must be recognized. Hernia, if supported by a truss, should not disqualify. Nervous disorders and psychic instability would be disqualifying.

¹¹ The duties of the position may vary extensively as to physical requirements, depending entirely upon the type of work to be done. Spot welding of small parts is done on the ground level, while the repairing of hulls of ships entails working off the ground, which may require agility, good muscular strength, and balance.

WAR DEPARTMENT, COLUMBUS ARMY SERVICE FORCES DEPOT, COLUMBUS, OHIO

1 Messenger may ride a scooter, jeep or bicycle. Work is not arduous but employee should have good use of lower extremities. Those who drive must have motorcycle operation vision.

2 All guards start on the midnight to 8 a. m. shift and are actively engaged in shifting

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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WAR DEPARTMENT, WRIGHT FIELD, DAYTON, OHIO

[illegible]

SIXTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																		EYES		EARS		CHEST	
				AMPUTATIONS										DISABILITIES													
				Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
				Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
5-83.972	Aircraft instrument mechanic, plane ⁵		X																								
5-95.030	Aircraft maintenance supervisor ⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-16.940	Aircraft painter ⁷		X																								
5-83.447	Aircraft radio electrician, bench		X																								
9-65.43	Aircraft radio electrician helper ⁸	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-83.447	Aircraft radio mechanic, bench		X																								
9-63.43	Aircraft radio mechanic helper	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-83.447	Aircraft radio mechanic installer ⁹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4-80.060	Aircraft sheet-metal worker, bench		X																								
6-94.231	Aircraft sheet-metal worker, helper	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4-80.060	Aircraft sheet-metal worker, plane ¹⁰		X																								
5-24.110	Bricklayer ¹¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-25.110	Carpenter shop foreman ¹²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1-38.01	Clerk, junior, property and supply ¹³		X																								
4-97.010	Electrician ¹⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2-84.10	Engineer-janitor ¹⁵		X																								
5-92.788	General mechanic foreman ¹⁶		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
0-79.01	Inspector general, construction ¹⁷	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-92.111	Leather and canvas worker foreman ¹⁸		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-73.060	Locomotive crane operator ¹⁹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-78.100	Millwright ²⁰	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6-81.010	Mobile machine repairman ²¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-17.020	Patternmaker	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-17.020	Patternmaker, senior ²²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9-64.15	Photolithographic reproducer helper ²³		X																								
5-92.411	Plant production chief ²⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-83.411	Radio mechanic ²⁵	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-72.310	Refrigeration engineer ²⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1-38.01	Storekeeper, heavy duty		X																								
1-38.01	Storekeeper, light duty ²⁷		X																								

Code

Title of position

should be cause for rejection, as the work requires agility and dexterity, especially in the installation or repair in plane work. If there is enough bench work in a particular plant to occupy a man, the requirements in that case should be much lower, and condition of lower extremities is of less importance.

⁹ More stringent requirements apply to work which may involve repair installation work in planes. Where the work is of the production type and is primarily bench work, the requirements can be lenient, and the condition of the lower extremities is not an important consideration. Good vision, both near and distant, and good functional hands would be of major importance, while other disabilities are secondary.

¹⁰ There are 2 types of workmen, plane and bench. The former requires higher physical standards; the latter may be more liberal. The primary hand must be good and the secondary hand must have a good grip. If tube bending is also to be done, greater physical strength is required. Metal spinning may also come in this category, and this requires good shoulder and arm function and strength. Good vision is required in 1 eye, but hearing may be impaired without greatly increasing the hazards. Agility and balance are definite requirements where work is being done on planes.

¹¹ This work is relatively arduous, and requires sustained effort. Agility is of marked importance, since the worker is required to crawl around uncompleted structures and work on narrow scaffolds or platforms. Extremities and torso must be functionally good. Minor defects of the secondary hand are not very important providing the applicant possesses a good grip. Hernia supported by a truss would not disqualify, but organic heart disease or hypertension should be cause for rejection. Good distant vision is of major importance, and binocular vision is preferred. Hearing is of secondary importance, although for safety reasons it is advisable to use persons who hear at a distance of 10 feet in 1 ear.

¹² This position is primarily an administrative one, and the physical requirements can be liberal. The foreman must be able to walk and stand for long periods of time. Hernia supported by a truss, compensated heart disease, mild hypertension, varicoseities and deformities, or loss of a hand, arm, or leg would not seriously disqualify, providing that in the case of the loss of lower extremity the applicant has a serviceable artificial limb replacing the loss.

¹³ The position observed was comparable to that of a storekeeper, but the majority of the material handled was stationary or office supplies; stock is delivered in crates and boxes which may weigh 100 or more pounds. Desks and typewriters are also handled. The uncrated materials are placed on shelves which may reach such height that ladders are required. The employee should not have organic heart disease, hypertension, or marked varicoseities. Well-supported hernia would be accepted. Near and distant vision in 1 eye is required, and basic saturated colors should be discernible. Secondary hand should have good functional grip, but minor defects should not disqualify. Hearing is of secondary importance.

¹⁴ There seems to be little likelihood that the requirements can be lowered for this position as it requires that the applicant be able to work at high elevations and in cramped spaces. While this work is not usually strenuous in nature, the free use of all parts of the body is required. Organic heart disease, hypertension, neurological conditions, varicoseities, or marked impairment of vision should definitely disqualify.

¹⁵ Work involved in this position is primarily of the arduous type, and requires that the employee be in good physical condition; organic heart disease, whether or not compensated, hypertension, varicoseities (severe), or hernia not supported by truss should disqualify. Basic saturated colors should be recognized, for some indicators may show such colors.

¹⁶ The duties of this position usually do not require arduous physical exertion. It is primarily one of a supervisory nature and requires that the employee stand and walk and receive and answer inquiries pertaining to the work. Good near vision in 1 eye is neces-

¹ This position is in the shop and is mainly bench work. Good grip in the secondary hand is required and a good functioning primary hand is essential. There is little arduous work as a rule. The maximum weight handled is about 150 pounds, and this is handled with the aid of assistants. Normal color vision is not essential. Loss of 1 lower limb, with satisfactory prosthesis, would not militate against employment. Occasionally employees in this position are required to install or remove cameras from planes; however, in such instances the foreman could choose men with good lower extremities for this task.

² While some of this work is shop or bench work, these employees are frequently required to install and repair turrets and armament on the planes, which involves working in cramped positions on and around planes which are above ground level. Hernia supported by a truss and moderate varicoseities should not disqualify. Normal color vision is not required.

³ Actual hard physical labor is not the rule in this position, but certain phases may require such work, though it usually is not sustained. Binocular vision is preferred because of hazards, but monocular vision would suffice. Hearing is secondary, but shouted orders should be heard by employee. Good functional manual dexterity is essential, and crippling deformities of the hands are not acceptable. Sense of balance, muscular coordination, and good use of lower extremities are essential, as the work involves climbing in, on, and around planes which may be at some height from the ground. Hernia supported by a truss should not disqualify.

⁴ This position is one of the most exacting of the positions observed and involves the handling of very valuable and important material. The employee must be agile, must possess good near and distant vision, and must be mentally and emotionally stable. The work involves setting up engines to be tested, making test runs, tearing down of the job on completion of run, and the maintenance of the equipment involved. Work is frequently above the ground level. Every effort should be made to maintain high physical requirements for this position.

⁵ The requirements for bench work pertaining to aircraft-instrument work are relatively low, and persons should be acceptable for these positions with hernia, compensated heart disease, varicose veins, hypertension, and deformities or defects of the lower extremities. For installation or repair work of instruments on planes, the requirements are necessarily much higher, and good functional use of the lower extremities is essential.

⁶ The physical requirements are low because the work is primarily desk or clerical in character but should not be used as blanket requirements for all positions, since occasionally these employees are called upon to travel by air to view air accidents, and on these occasions, may be required to climb about the plane in performing the work. Where several of these positions are located at 1 field or plant, some persons may be accepted who have disabilities but a certain percentage should be well qualified physically in order to perform the arduous work that occasionally arises. For this latter group, organic heart disease, hypertension, hernia not supported by a truss, neurological conditions, and marked defects in any extremity should disqualify.

⁷ The hazards resulting from paint operations are usually slight in the modern supervised plant, but they must be considered. Most large spraying jobs are outside, and smaller parts or insignia painting may be done inside. Arduous physical exertion is usually not required. Good function of lower extremities is essential, since the work necessitates crawling around planes on ladders or at some height from the ground. One good functional hand is required, but the secondary hand may be somewhat impaired. Binocular vision would not be necessary but good color vision is required. Chronic chest conditions should disqualify.

⁸ This position requires good physical condition; organic heart disease, whether or not compensated, hypertension, or any neurological condition producing muscular incoordination would disqualify. Hernia supported by truss, varicose veins, and minor defects of hands or lower extremities should not disqualify, but any serious defect of any extremity

sary for the reading of blueprints. Organic heart disease (if compensated), mild hypertension, and hernia should not disqualify. Loss of 1 hand should not disqualify, providing a serviceable replacement is worn.

¹⁷ The work is not primarily arduous, but the employee may be called upon to perform arduous work, such as climbing around uncompleted buildings. Torso and extremities must be in good functional condition. Binocular vision is preferred because of hazards involved.

¹⁸ The work is chiefly administrative in character, but the foreman may be required to climb or crawl around and this would require that he have good functional control of the lower extremities. The foreman at Wright Field also does regular leather and canvas work himself.

¹⁹ This position is a combination of fireman, engineer, and crane operator. Hearing must be normal in both ears. Recognition of basic saturated colors is required. Employee must be well proportioned in height and weight, and agility is required. Lower extremities must be in good condition, since the job involves prolonged standing and the use of the feet and legs in the operation of pedals. Both hands should possess good functional grip for the operation of the various levers, and the primary hand should be functionally good.

²⁰ This position is comparable to machinist (maintenance) but frequently involves more arduous work. It consists of setting up, repairing, and maintaining machinery. Normal color vision is usually not essential. Upper and lower extremities should be in good functional condition. Hearing is of secondary importance, although the employee should be capable of hearing high-pitched sounds in 1 ear.

²¹ This position involves working on all types of mobile machinery, such as trucks, tractors and caterpillars, and involves arduous labor. Torso, arms, legs, fingers, and hands must be in good functional condition. There is little or no bench work connected with this position. Vision should be that for motor-vehicle operation, since employees frequently have to drive vehicles. A history of allergy should be investigated, for grease and solvents are used which may cause trade dermatitis.

²² The requirements of this position may vary greatly with the type of work performed.

²³ This work is not arduous in character, but it does require manual dexterity and therefore both hands should be functionally good. The loss of 1 lower extremity should not disqualify if an artificial limb is worn. A history of allergy must be considered, since contact with various chemicals used may cause a contact dermatitis.

²⁴ This position at a large plant such as Wright Field is primarily an executive one and does not require high physical requirements, but it does not apply in some plants where the chief must attend all major disorders and if necessary participate in their settlement, which would entail visiting fires, making arrests, or inspecting various parts of the plant; this work necessarily would require that the applicant be in good physical condition, have good vision, good hearing, possess the ability to run, and if necessary take part in arrests, which may occur.

²⁵ This work is chiefly bench work and does not usually require good functional use of the lower extremities. As a rule, if any major defect occurs in a plane radio, the whole radio is removed and the repair work is done in the shop. Near and distant vision must be good. Normal color vision (basic saturated colors) is required. Manual dexterity is of prime importance. Hernia, hypertension, and organic heart disease, if compensated, should not disqualify.

²⁶ This position is similar in requirements to that of engineman, except that in addition there is the hazard of noxious gases which may be released during break-downs of the refrigeration system. Chronic eye conditions would be aggravated by irritating gases. Allergies and anemias should also disqualify. Hands, arms, torso, and lower extremities should be in good functional condition. Near and distant vision should be approximately normal in 1 eye, and hearing should be good enough in 1 ear to recognize high-pitched sounds.

²⁷ Storekeeper duties are primarily supervisory or clerical in character. The under and assistant positions usually involve the actual work. The nature of the duties is dependent upon the establishment and the material handled. Machine-shop stockrooms may have stock to be handled by 1 man. The handling of alloys requires normal basic color perception as alloys are marked by colors. For the supervisory positions, compensated heart disease, moderate hypertension, and varicosities should not disqualify.

WAR DEPARTMENT, FAIRFIELD AIR DEPOT, FAIRFIELD, OHIO

reading and color of badges. There are 3 towers with perpendicular ladders. Emotional stability required. Loss of 1 eye, hearing corrected with hearing aid, minor disabilities of the hand, fingers, arms or shoulders, mild varicosities, supported berina, arrested tuberculosis and moderate hypertension are not disqualifying.

¹ Messengers may walk, or use scooters or bicycles. Those using scooters or bicycles require the use of both functioning upper extremities and motor-vehicle vision. Arrested tuberculosis is acceptable. The loss of a lower limb or part of a lower limb which has been replaced with a functioning prosthesis would not be disqualifying.

2 Shifts and duties vary. All are armed. Near and color vision required to check

¹ This is an administrative position involving the coordination of various activities around the plant. It is not of the arduous type and allows for placement of the physically handicapped. The employee must be able to stand and walk. One hand must function enough to write. Binocular vision is preferred but monocular would suffice.

² As the title implies, the employee must be capable of performing a great variety of work and therefore must be in good health and capable of performing arduous duty of almost any nature. Fingers, arms, hands, legs, torso, and joints must be functionally good. Binocular vision is preferred, but monocular would suffice. Normal color vision not required. Hearing must be acute in 1 ear for operation of certain machines.

¹ This is an administrative position involving the coordination of various activities around the plant. It is not of the arduous type and allows for placement of the physically handicapped. The employee must be able to stand and walk. One hand must function enough to write. Binocular vision is preferred but monocular would suffice.

² As the title implies, the employee must be capable of performing a great variety of work and therefore must be in good health and capable of performing arduous duty of almost any nature. Fingers, arms, hands, legs, torso, and joints must be functionally good. Binocular vision is preferred, but monocular would suffice. Normal color vision is not required. Hearing must be acute in 1 ear for operation of certain machines.

³ The mail is carried by trucks from central point to place of distribution. Packages

SIXTH REGION—Continued

WAR DEPARTMENT, MARION ENGINEER DEPOT, MARION, OHIO

Code	Title of position	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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¹ Messengers may use scooters, bicycles, or walk. The former 2 types require more adequate use of both upper extremities and vision for motor-vehicle operation. Walking messengers require only 2 functioning legs and 1 arm, hearing for conversation and 1 eye.

² Position involves gate work and patrolling, the latter including motor-vehicle operation. There are 3 shifts changing every 28 days. Gate jobs are given on the basis of qualification.

fication and seniority. All are armed. Men patrol areas and large warehouses ringing clocks. The following disabilities are permissible: Minor disabilities of the secondary hand, minor spinal defects, moderate hypertension and arrested tuberculosis. Lower extremities must be functionally good and emotional stability is required.

WAR DEPARTMENT, U. S. ENGINEERS, PORTSMOUTH, OHIO

5-94. 160	Levee and embankment inspector ¹			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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¹ The work involves climbing up and walking along levees or embankments which may be rough and irregular in contour, therefore, the lower extremities must be in good functional condition. Obesity is a definite handicap.

WAR DEPARTMENT, 831ST SPECIALIZED DEPOT, SHELBY, OHIO

1-23. 14 2-61. 03	Messenger ¹ Patrolman ²												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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¹ The work is light, involving primarily the delivery of first-class mail.

² There are 3 rotating shifts and all patrolmen except corporals are required to work at any duty. The corporals are the gate men. All are armed requiring emotional stability. This force patrols large warehouses; therefore, walking is extensive. The employee is required to punch clocks.

INTERIOR DEPARTMENT, U. S. FOREST SERVICE, MILWAUKEE, WIS.

INTERIOR DEPARTMENT, U. S. FOREST SERVICE, MILWAUKEE, WIS.

¹ Duties combine many such as forest ranger, mechanic and maintenance of automotive equipment, power lines, bridges and roads. The latter is about 50 percent of duties; others are equally divided as to time. Must ascend and descend fire towers at intervals. He is also a fire fighter.

¹ Duties combine many such as forest ranger, mechanic, and maintenance of automotive equipment, power lines, bridges and roads. The latter is about 50 percent of duties;

[illegible]

SEVENTH REGION—Continued

[illegible]

- ² Two hands are essential to operate jeeps and fork lifts. However, right leg amputee could perform the duties satisfactorily.
- ³ Position is primarily outside work in ground maintenance. Amputees are not acceptable for these duties and bilateral vision is not essential.
- ⁴ Sitting position. Multiple operations demands both arms, and reading to scale demands bilateral vision.
- ⁵ Prolonged standing and multiple operation precludes amputees. Bilateral vision is essential to the position.
- ⁶ Automatic machines can operate while employee is sitting. Good bilateral vision is essential. Amputation of 1 leg is no handicap.
- ⁷ Arduous duty position with prolonged standing and heavy lifting. Reading scale makes bilateral vision necessary.
- ⁸ Sitting position. Exacting vision is not necessary. Environment is satisfactory.
- ⁹ Automatic machine can operate while employee is in sitting position. Leg amputee is acceptable. Bilateral vision is essential.
- ¹⁰ This position is about moving machinery at ground level or near ground level.
- ¹¹ This is a sedentary position, requiring 2 good hands and good bilateral vision.
- ¹² Some work is at elevations above ground where most disabilities are not acceptable. Ladder and scaffolding is utilized to a height of 40 feet.
- ¹³ Performs rough painting at ground level.
- ¹⁴ Physical factors important by reason of variable positions.
- ¹⁵ Plating operator and acid dip operator are interchangeable. No prolonged standing.
- ¹⁶ Safety glasses worn. Full physical fitness essential. Bilateral vision is not essential as close or exacting work is not required. Hot sparks provide a hazard.
- ¹⁷ Sets up and operates 2 automatic screw machines which requires standing about 50 percent of the time. Handles light weight materials. Otherwise all other physical factors are quite essential, especially vision and full use of hands and fingers.
- ¹⁸ Position concerned primarily with light tools not exceeding 2 to 5 pounds—moderate amount of ladder work. Bilateral vision is not essential.
- ¹⁹ Employee sits about 50 percent of time. Good bilateral vision is essential.
- ²⁰ Sitting position. Bilateral vision and both arms are necessary. Detrimental environment factors are not present.
- ²¹ Positions are located in welding compartment equipped with small individual welding spaces. Size of parts welded does not necessitate standing.

- ¹ General assemblies interchangeable from light to heavy work. One limb acceptable in some spots. One eye acceptable in some parts of position.
- ² Heavy assembly position. No amputees acceptable. Bilateral vision is not essential. The position requires prolonged standing.
- ³ This position requires prolonged standing and good bilateral vision.
- ⁴ This position is in a fume chamber where the employee uses solder and acid for soldering.
- ⁵ Both hands are necessary for this assembly work. This is a sedentary position, requiring good bilateral vision.
- ⁶ This is moderate duty confined to carpenter shop alone, and is a standing position. Bilateral vision is not absolutely essential.
- ⁷ This employee undergoes long periods of standing and handles heavy objects.
- ⁸ One arm acceptable with suitable prosthesis. One leg acceptable in some positions. Practically all work at ground level.
- ⁹ All work is performed at a bench in a shop. The work is not exacting and bilateral vision is not essential.
- ¹⁰ Work is exacting as to vision. Numerous operations require both arms and hands with moderate function acceptable.
- ¹¹ Position is maintenance and construction in wiring machines. No heavy duties are involved as this is primarily a sedentary position. Bilateral vision is not essential.
- ¹² Sitting position while working. Exacting vision is not essential.
- ¹³ No amputees acceptable. Stokers to be cared for. Disabilities of hand are acceptable. Bilateral vision is not essential. Excessive heat predominates.
- ¹⁴ Position a sitting job—machine automatic. Two arms essential to starting operations. One leg acceptable. Environment entirely satisfactory.
- ¹⁵ Exacting vision essential. Read Vernier scale. Is a standing job at all times. Light weight lifting and automatic machine provides that 0.01 acceptable.
- ¹⁶ This employee works with crew in loading and unloading of heavy freight.
- ¹⁷ Sitting position. Light materials handled. Accuracy of vision is essential.
- ¹⁸ Position interchangeable with similar machines. This is a sitting position and requires handling small parts clamped into position. Balance procedure is automatic.
- ¹⁹ Both arms and good vision is essential. The position is sedentary.
- ²⁰ Positions demand a slight amount of ambulation at times and 1 leg amputees are acceptable. Physical requirements, otherwise are moderate.

SEVENTH REGION—Continued

POST OFFICE DEPARTMENT, ROOSEVELT PARK POST OFFICE, DETROIT, MICH.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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¹ Limited motion of 1 arm or elbow, wrist, and fingers are acceptable. Employee occasionally works in narrow spaces, making obesity disqualifying for this position. Good vision and hearing is required for regular guard work. For some stations, guard with good vision in 1 eye would be acceptable (stair-guard, entrance-room entrance). Persons with third, fourth, and fifth fingers missing could be utilized.

² Good vision in 1 eye is sufficient for performing the duties. Persons with deformity of 1 lower extremity, with absence of third, fourth, and fifth fingers on 1 hand, deafness in 1 or both ears if compatible with satisfactory performance of duties, may be utilized. Heavy work must be done by persons possessing full faculties.

³ Good vision in 1 eye, limited motion of 1 arm or elbow, wrist, and fingers are acceptable. Good vision in 1 eye is acceptable. Limited motion of 1 arm or elbow and wrist is acceptable. Deafness in 1 or both ears compatible with satisfactory performance of duties is acceptable.

⁴ Good vision in 1 eye only is required; fourth and fifth fingers may be missing on 1 hand; handicaps of lower extremities, limited motion of 1 arm or elbow, wrist and fingers and defective hearing are acceptable. Height and weight have no bearing on the duties of this position.

⁵ Employee should have good vision in 1 eye. Limited motion of 1 arm or elbow, wrist or fingers is acceptable. Hearing in only 1 ear is required.

⁶ Limited motion of 1 arm or elbow, wrist, and fingers is acceptable; fourth and fifth fingers missing on 1 hand is acceptable. Ground helpers with ankylosis of knee and ankle are acceptable.

⁷ Third, fourth, and fifth fingers may be missing on 1 hand; loss of 1 leg with satisfactory prosthesis, moderate hypertension, and arrested tuberculosis are acceptable.

⁸ Third, fourth, and fifth fingers may be missing on 1 hand; loss of 1 leg with satisfactory prosthesis, deformity of lower extremity, and limited motion of 1 arm, elbow, wrist, and fingers are acceptable.

[illegible]

1 Employee should have good vision in 1 eye. Employee with 1 hand could be utilized as helper in cleaning and handling parts to persons doing regular repair work. I limited

motion of elbow, wrist, fingers is acceptable, but it is not necessary that shoulders and hip has neither in cleaning and handling parts to persons doing regular repair work. Limited motion of elbow, wrist, fingers is acceptable, but it is not necessary that shoulders and hip joints have free motion. Moderate hypertension and arrested tuberculosis are not disqualifying.

² Employee must have full use of both arms, hands and lower extremities in order to perform the duties.

² Persons with vision in 1 eye or 1 hand intact are acceptable. Limitation of motion perform the duties.

THE UNIVERSITY OF CHICAGO

U. S. PUBLIC HEALTH SERVICE, U. S. MARINE HOSPITAL, CHICAGO, ILL.

[illegible]

¹ An employee receiving artificial pneumothorax for tuberculosis should not be employed as a dietitian, even though he has been considered an arrested case.

² The duties of this position consist of performing mechanical custodial work, such as

blow-off, and maintaining steam pressure of high-pressure boilers, cleaning fires and removing ashes, lubricating pumps, and making minor repairs to boilers when required. The duties are carried out under immediate supervision.

³ This laborer performs a number of diversified duties in which little or no training is required, such as moving heavy articles, loading and unloading trucks, maintenance of grounds, shoveling snow, washing windows, and assisting semiskilled workmen (carpenters, plumbers).

[illegible]

Mess attendant at this institution must do cleaning above and below tables.

WAR DEPARTMENT, CHICAGO SIGNAL DEPOT, CHICAGO, ILL.

[illegible]

! The guard-patrolman is assigned to both inside and outside duty and is required to carry firearms.

WAR DEPARTMENT, DISTRICT ENGINEERS, CHICAGO, ILL.

[illegible]

¹ The damtender is also responsible for the maintenance of locks or gates of several dams. Drives motor vehicle from one gate to another to open succeeding dams. Maintenance consumes 60 percent of duties.

WAR DEPARTMENT, GARDINER GENERAL HOSPITAL, CHICAGO, ILL.

	2-45, 20	2-45, 30	2-45, 30	2-41, 03	2-84, 10
Elevator operator 1					
Elevator operator, freight 2					
Guard 3					
Janitor					

¹ This employee is required to operate the door from a standing position, since the elevator door is not automatic.

³ This employee is assigned to both inside and outside duty and is required to carry firearms.

² This employee is required to stand at his work since the door opens manually and there is a distance of about 6 feet between the operating lever and the heavy door. He may assist occasionally in moving the freight.

[illegible]

WAR DEPARTMENT, STATION HOSPITAL, FORT SHERIDAN, ILL.

	2-26 32	2-27 01	1-38 93	2-29 51	2-42 10	2-42 10
Cook.....						
Cook, junior.....						
Dietician.....						
Mess attendant.....		X				
Ward attendant.....						
Wardmaster.....			X	X		

WAR DEPARTMENT, ROCK ISLAND ARSENAL, ROCK ISLAND, ILL.

[illegible]

SEVENTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																	EYES		EARS		CHEST
				AMPUTATIONS							DISABILITIES														
				Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
8-93.77	Moveman																								
9-71.01	Oiler																								
5-92.397	Ordnance maintenance foreman																								
7-68.451	Packer																								
9-65.18	Packer, mail order																								
5-27.010	Paint foreman	X																							
5-27.010	Paint foreman and assistant	X																							
5-27.010	Painter																								
5-92.311	Pattern foreman																								
5-99.030	Planning foreman and assistant																								
4-74.010	Plater																								
9-65.28	Plater helper																								
7-32.812	Plumber mechanic helper																								
5-30.210	Plumber foreman																								
6-77.050	Polisher																								
7-88.010	Power loading machine operator																								
4-78.513	Precision-grinder machine operator	X																							
4-44.010	Printer																								
5-91.701	Printing foreman and assistant																								
1-18.66	Production estimator assistant																								
1-18.66	Production follow-up man assistant																								
1-18.66	Production route-sheet assistant																								
7-38.020	Railroad brakeman																								
5-99.030	Recuperator foreman and assistant	X																							
5-83.621	Repair foreman and assistant																								
5-83.621	Repairman general	X																							
9-65.64	Rigger	X																							
6-84.640	Riveter	X																							
7-31.200	Roofer	X																							
8-82.10	Sandblast operator helper	X																							
6-82.720	Sandblast operator	X																							
7-84.240	Saw filer	X																							

Cardiac

Pulmonary tuber-

SEVENTH REGION—Continued

WAR DEPARTMENT U. S. ENGINEERS, ROCK ISLAND, ILL.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																					EYES	EARS	CHEST			
				AMPUTATIONS											DISABILITIES															
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hips or shoulders							
				Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis																				
5-49. 104	Canal overseer ¹	X																												
2-82. 10	Charwoman ²																													
2-84. 10	Janitor																													
9-49. 10	Laborer ³	X																												
9-49. 10	Lockman ⁴	X																												
1-23. 14	Messenger ⁵					X	X	X	X	X	X																			

¹ General maintenance man and supervisor of laborers. He must operate dam gates and drive a car to reach 4 separate gates to be opened for passing boats. This latter not frequent enough for breakdown of job.

² Combines duties of both charwoman and matron, approximately 75 percent and

³ 25 percent respectively. Cleans and cares for rest rooms only.

⁴ Performs the general labor work in the upkeep and operation of dam gates.

⁵ This position includes hand-over-hand pulling of towlines of heavy rope. Bilateral amputation of arms with prosthesis can be accepted.

* WAR DEPARTMENT, FORT WAYNE, DETROIT, MICH.

5-25. 110	Carpenter																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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¹ Although some jobs in this classification are very arduous, there are a number of positions which involve light duties.

¹ The duties of this employee consist of supervision of a large number of employees performing diversified duties in the operation, maintenance, and protection of buildings, grounds, and utilities.

¹ The duties of this employee consist of supervision of a large number of employees performing diversified duties in the operation, maintenance, and protection of buildings, grounds, and utilities.

EIGHTH REGION

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, HEADQUARTERS SEVENTH SERVICE COMMAND, OMAHA, NEBR.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																		EYES	EARS	CHEST				
				AMPUTATIONS										DISABILITIES														
				Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Feet	Back	Hips or shoulders							
				Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis																		
2-95.20	Elevator operator.....		X																									
5-72.020	Engineman assistant.....																											
5-72.020	Engineman helper.....																											
7-70.040	Fireman.....																											
7-70.040	Fireman-laborer.....																											
2-61.03	Guard-laborer, police duty ¹		X																									
2-86.10	Laborer.....																											
5-94.040	Laborer foreman.....																											
0-87.10	Superintendent.....		X																									

¹ In addition to guard duties employee does some painting.

INTERIOR DEPARTMENT, SIOUX SANITARIUM, RAPID CITY, S. DAK.

2-42.10	Attendant-orderly, male ¹	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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¹ Duties of this position are like that of a janitor.² This position is filled by Indians only, if available. The duties consist in interchange of help between kitchen and wards.

[illegible]

1 Chauffers drive either bus or trucks.

- 2 This position is in the hanger.

2. This position is in the market.

3. The position involves arduous labor inside and outside.

⁴ Aid is given lifting the heavier parts.

⁴ Aid is given lifting the heavier parts.

NAVY DEPARTMENT. NAVAL AMMUNITION DEPOT, HASTINGS, NEBR.

[illegible]

The duties include stirring ingredients with a large paddle.

2 This employee pours the ingredients into a form about the size of a brick. When cool he removes the mold, which weighs about 3 pounds, from the form and packs in a case. The bricks are explosive in nature when cooled.

³ This employee fills and handles a drum which weighs about 50 pounds.

⁴ The duties include weighing and mixing ingredients for shells, using production line methods. The employee is required to shift his position frequently.

POST OFFICE DEPARTMENT, POST OFFICE, BURLINGTON, IOWA

¹ An employee with an artificial lower extremity could perform the duties of the position satisfactorily provided he were agile and had acquired good function of prosthetic appliance.

POST OFFICE DEPARTMENT, POST OFFICE, MINNEAPOLIS, MINN.

[illegible]

EIGHTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, PERHAM, MINN.

[illegible]

POST OFFICE DEPARTMENT, POST OFFICE, ST. PAUL, MINN.

[illegible]

EIGHTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, SCOTTSBLUFF, NEBR.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS	CHEST										
				AMPUTATIONS								DISABILITIES																			
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis
1-28. 01	Carrier, city																														
1-28. 01	Carrier, rural	X	X					X									X														
1-28. 01	Carrier, rural, substitute	X	X					X									X														
1-28. 01	Carrier, city, substitute	X	X					X									X														
1-27. 20	Clerk, window	X	X					X									X														
1-27. 20	Custodian	X	X					X									X														
1-27. 10	Distributing and dispatching clerk	X	X					X									X														
1-27. 10	Distributing and dispatching clerk, substitute	X	X					X									X														
0-97. 12	Postmaster, assistant	X	X					X									X														
0-97. 13	Superintendent of mails	X	X					X									X														
1-28. 01	Carrier, city	X	X					X									X														
1-28. 01	Carrier, city, substitute	X	X					X									X														
1-28. 01	Carrier, rural	X	X					X									X														
1-28. 01	Carrier, rural, substitute	X	X					X									X														
2-86. 10	Fireman-laborer ¹	X	X					X									X														
1-27. 20	Postal clerk ²	X	X					X									X														
1-27. 20	Postal clerk, substitute ¹	X	X					X									X														
0-97. 12	Postmaster, assistant ³	X	X					X									X														

POST OFFICE DEPARTMENT, POST OFFICE, SIDNEY, NEBR.

¹ Work interchanged with charman. Does all the work asked of a laborer about the post office. Interchanges with fireman-laborer.

² Works at window and money-order desk; distributes and dispatches empty mail sacks, and loads sacks on carts.

³ Color vision desirable, as the duties include sale of stamps.

EIGHTH REGION—Continued **VETERANS' ADMINISTRATION, VETERANS' ADMINISTRATION HOSPITAL, LINCOLN, NEBR.**

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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¹ This employee drives all motor vehicles, including tractor, truck, and ambulance.

² In addition to elevator duties, this employee is required to perform the work of janitor.

EIGHTH REGION—Continued

VETERANS' ADMINISTRATION, VETERANS' ADMINISTRATION HOSPITAL, HOT SPRINGS, S. DAK.

Code	Title of position	Depth perception required	ORTHOPEDIC																EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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¹ The duties involve the driving of an ambulance and the carrying of stretchers.² This is a supervisory position involving full charge of operation and maintenance of engineroom equipment.³ The duties involve directing and working with other employees.⁴ Employee is engaged as operator of washing machinery in laundry which requires arduous physical exertion.

WAR DEPARTMENT, IOWA ORDNANCE PLANT, BURLINGTON, IOWA

[illegible]

¹ This is bench work consisting of the inspection of small, inert (not loaded) component parts involving the use of snap, ring thread, and major diameter gages.

WAR DEPARTMENT, ARMY INDUCTION CENTER, CAMP DODGE, IOWA

[illegible]

¹ This employee performs various duties around the office similar to those generally assigned to messengers.

² The powder monkey drills holes into which powder is packed. There is very little danger connected with this job if the employee is mentally alert.

The duties of this employee include unloading supplies.

WAR DEPARTMENT, ARMY AIR FORCES STORAGE DEPOT, DES MOINES, IOWA

[illegible]

In addition to regular duties of a guard, this employee may be assigned to duties such as telephone operator, typist, or clerk.

WAR DEPARTMENT, DES MOINES ORDNANCE DEPOT, DES MOINES, IOWA

[illegible]

The duties of this position consist of packing cartridges.

EIGHTH REGION—Continued WAR DEPARTMENT, TWIN CITY ORDNANCE PLANT, MINNEAPOLIS, MINN.

Code	Title of position	Depth perception required	Color vision required	ORTHOPÉDIC																								EYES		EARS		CHEST	
				AMPUTATIONS												DISABILITIES																	
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis		
5-83 541	Armorer	X									X										X									X			
9-64 44	Bandoleer 1																																
7-86 451	Cartridge packer																																
1-03 02	Checker																																
0-50 58	Chronographer																																
1-04 01	Clerk, assistant																																
4-76 210	Gage maker																																
0-50 54	Gunner-ammunition proof technician																																
4-52 481	Inspector, assistant chief	X																															
5-83 972	Instrument repairman	X																															
4-75 120	Machinist	X																															
0-50 56	Proof technician	X																															
0-50 56	Proof technician, assistant	X																															
0-50 56	Proof technician, chief	X																															
0-50 56	Proof technician, junior	X																															
0-50 56	Proof technician, minor	X																															
0-50 56	Proof technician, principal	X																															
0-50 56	Proof technician, senior	X																															
0-50 56	Proof technician, under	X																															
1-38 01	Storekeeper																																
6-54 038	Subinspector, cartridge distribution																																
4-54 038	Subinspector, mercury crack																																
4-52 481	Subinspector, ordnance material																																
6-54 038	Subinspector, primer drop																																
6-54 038	Subinspector, process inspector																																
6-54 038	Subinspector, pulley-pull																																
1-26 03	Timekeeper																																

¹ The duties consist of placing small packages of cartridges in separate compartments of a belt and then folding the top of the canvas belt over the filled spaces. The work is performed while seated at a table.

EIGHTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST					
				AMPUTATIONS								DISABILITIES															
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-18. 61	Dispatcher, coal yard.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
1-18. 61	Dispatcher, motor vehicles.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
0-48. 04	Draftsman, assistant.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
4-97 915	Electrician foreman.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-95 100	Electrician helper.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
4-97 915	Electrician, junior.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
4-97 915	Electrician, senior.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-23 910	Engineering equipment operator.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
2-53. 10	Firefighter.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-70. 040	Fireman, stationary.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-83. 023	Furnace repairman.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-72 010	Heating operator.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-83. 972	Instrument mechanic.....		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
9-03. 01	Laborer.....			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-95 030	Laborer foreman, junior.....			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
4-75 010	Machinist.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-92 768	Machinist foreman, assistant ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-94. 100	Machinist helper.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-24. 110	Mason.....			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
0-19. 01	Mechanic, engineering equipment.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-81 010	Mechanic general, automotive equipment.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-81 010	Mechanic general, junior.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-81 010	Mechanic general, senior automotive equipment.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-81 010	Mechanic helper ⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-72 510	Operating engineer, water ⁵	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-27 010	Painter, inside and outside.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-27 910	Painter, sign.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-49 021	Parachute rigger ⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-95 030	Parachute rigger foreman ⁷	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
7-49 021	Parachute rigger helper ⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
5-30. 210	Plumber.....			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								

Code	Title of position	ORTHOPEDIC																EYES		EARS		CHEST
		AMPUTATIONS								DISABILITIES												
		Arm	Arms	Hand	Fingers	Leg	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Deaf	Hard of hearing		
		Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	Color vision required	Depth perception required	
4-97 915	Electrician, junior ⁶																					
4-97 010	Electrician, junior (post engineers) ⁶																					
4-97 010	Electrician (post engineers) ⁶																					
4-97 010	Electrician, senior (post engineers) ⁶																					
5-61 393	Foreman, assistant leather and canvas ⁷																					
5-61 393	Foreman, leather and canvas ⁷																					
5-97 110	Foreman, motor equipment ⁸																					
4-25 020	Foreman, motor equipment ⁸																					
4-25 020	Hospital seamstress ⁹																					
2-84 10	Nurse, hospital																					
6-27 950	Journeyman, leather and canvas ⁷																					
0-50 01	Laboratory technician																					
6-27 950	Leather and canvas worker ⁷																					
6-27 950	Leather and canvas worker, junior ⁷																					
5-83 641	Maintenance man																					
5-83 641	Maintenance man																					
7-36 250	Operating engineer, senior (gas and oil)																					
7-36 250	Operator, junior ⁸																					
7-36 250	Operator, senior ⁸																					
5-30 210	Plumber																					
5-30 210	Plumber foreman																					
5-30 210	Plumber, junior																					
5-30 210	Plumber, senior																					
5-80 130	Propeller mechanic																					
5-80 130	Propeller mechanic																					
5-83 941	Refrigeration mechanic																					
5-25 110	Rigger ¹⁰																					
0-18 01	Safety engineer, ground																					
4-87 020	Sheet-metal worker ¹¹																					
5-69 060	Shop foreman																					
5-69 060	Shop foreman, assistant																					
5-83 641	Sign painter, card writing																					
5-27 910	Steam fitter																					
5-30 410	Steam fitter foreman																					
5-30 410	Steam fitter, junior																					
5-30 410	Steam fitter, senior																					
1-38 01	Storekeeper ¹²																					
1-38 01	Storekeeper, junior ¹²																					

EIGHTH REGION—Continued

WAR DEPARTMENT, ARMY AIR FORCES SPECIALIZED DEPOT, 4814 BASE UNIT, OMAHA, NEBR.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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5-25.110	Carpenter foreman.....	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

WAR DEPARTMENT, FORT OMAHA, OMAHA, NEBR.

7-36.010	Chauffeur.....	X	X																				
2-26.32	Cook, hospital.....																						
0-95.95	Inspector, motor vehicle.....	X																					
2-84.10	Janitor, hospital.....																						

[illegible]

WAR DEPARTMENT, MO. DIVISION, ARMY ORDNANCE WAREHOUSE, 9TH AND DOUGLAS STS., OMAHA, NEBR.

[illegible]

WAR DEPARTMENT, OMAHA ADJUTANT GENERAL'S DEPOT, 16TH AND CUMING STS, OMAHA, NEBR.

[illegible]

[illegible][illegible]

EIGHTH REGION—Continued

WAR DEPARTMENT, ARMY POST, FORT MEADE, S. DAK.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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5-81.510	Auto body repairman	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

¹ This employee supervises and works with lower grade employees.

² The duties consist of the repair of guns.

³ Much of this work is done out of doors in all kinds of weather.

The duties of this position are largely sedentary.
 17 This is a supervisory position involving maintenance of barracks and buildings.
 18 This position involves lifting up to 55 pounds.
 19 This operator opens and closes valves by turning wheels.

² Dunnage setter makes setting separators between shells when placed in cars for shipment.

EIGHTH REGION—Continued

WAR DEPARTMENT, ARMY AIR FORCES TECHNICAL SCHOOL, SIOUX FALLS, S. DAK.

Code	Title of position	Depth perception required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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NINTH REGION

COMMERCE DEPARTMENT, CIVIL AERONAUTICS AUTHORITY, KANSAS CITY, MO.

Code	Title of position	Depth perception required		Color vision required		ORTHOPEDIC																		EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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¹ The duties require the use of firearms, operation of a motor vehicle, exposure to cold or dampness, prolonged standing and/or locomotion, frequent climbing of steps, and light to moderate physical exertion.

² The duties require the operation of a motor vehicle.

FEDERAL LOAN AGENCY, RECONSTRUCTION FINANCE CORPORATION, OKLAHOMA CITY, OKLA.

1-23.14	Messenger ¹	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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¹ In addition to messenger duties this employee operates a mimeograph machine, receives and issues supplies, and assists with other stockroom work.

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, KANSAS CITY, MO.

2-95.20 2-61.03 2-84.10 1-23.14	Elevator operator ¹ Guard ² Janitor ³ Messenger ⁴	-- X -- --	-- -- -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X	-- X -- X
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¹ The duties of the position require prolonged standing, otherwise the physical exertion may be considered light.

² The duties of the position require the use of firearms, operation of a motor vehicle, overhead reaching, excessive bending or stooping, exposure to cold or dampness, prolonged standing and/or locomotion, and frequent climbing of steps.

³ The duties of this position involve overhead reaching, heavy lifting, pushing and

pulling, excessive bending and stooping, exposure to dust, cold, and dampness, prolonged standing and/or walking, and climbing of ladders and steps. Moderate physical exertion is required.

⁴ The duties of position require operation of a motor vehicle, prolonged standing and/or locomotion, and frequent climbing of steps.

NINTH REGION—Continued
INTERIOR DEPARTMENT, RECLAMATION PROJECT, ALTUS, OKLA.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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[illegible]

1 The duties require the use of firearms. This employee must be physically and mentally sound. Arduous physical exertion is required.

JUSTICE DEPARTMENT, UNITED STATES PRISON, LEAVENWORTH, KANS.

[illegible]

1 This employee must be able to do both gas and electric welding.

² The foreman does most of the repair work on all equipment.

³ A color-blind employee may be accepted, since the basic colors red and green can be distinguished on the gage by the employee learning their positions.

⁴ The workers are selected from the inmates, hence the foreman must be capable of performing all duties. Since the turn-over in men is approximately 90 percent a year the foreman does much of the actual work. This employee is also known as the instruction foreman.

NAVY DEPARTMENT, NAVAL AIR STATION, NORMAN, OKLA.

[illegible]

¹⁴ The duties require the use of firearms, agility, exposure to climatic conditions, prolonged locomotion and/or standing, and moderate physical exertion.

OFFICE OF PRICE ADMINISTRATION, KANSAS CITY, MO.

[illegible]

¹ The duties require the use of firearms, frequent climbing of steps, and light to moderate physical exertion.

¹ The duties require the use of firearms, frequent climbing of steps, and light to moderate physical exertion.

² The duties require overhead reaching, heavy pushing or pulling, excessive bending

³ The duties require the operation of a motor vehicle, overhead reaching, heavy lifting, pushing and pulling, excessive bending or stooping, prolonged standing and/or locomotion, frequent climbing of steps, and arduous physical exertion.

inspects 5 stations, and supervises the guard force.

17 This employee assists the fireman in the care of the heating plant, assists the gardener, does outside and inside cleaning, and removes ice and snow from the passageways. The maximum lifting load required is 200 pounds.

¹⁹ In addition to the regular duties of the position, the lampist assists the electrician and acts as relief elevator operator.

with plumbing, pipe covering, and painting, and, in addition, act as lampist and assist cabinetmaker as carpenter when necessary.

²² This employee supervises and, if necessary, works with mechanics in the motor-vehicle service division.

4 This employee performs clerical duties in the office of the motor-vehicle service and acting as chairman to local and distant points.

³⁶ A large portion of the duties consist of office work in the supervision of the motor-
ules and routes, and investigates accidents in the motor-vehicle service division.

vehicle service division.

and perform similar duties as necessary. Arduous physical exertion is required.

- This is a repair and maintenance job.
- The charwoman scrubs sweeps, dusts, and polishes. Bending rotation, lifting.

• This employee supervises the activities of the custodial force, requisitions, issues

notes time of arrival and departure of trucks. He also observes the general condition of the trucks.

tenance.

¹¹ This employee supervises firemen, mechanics and others who are responsible for the

¹² This employee works under the supervision of the engineman. The duties consist of observing gauges acting as steam fitter, plumber and pipe coverer and installing

This employee is responsible for the operation and maintenance of the entire mechanics of the building and monthly inspections of 5 stations.

16 The duties involve the use of firearms.

16 This employee supervises and works with other employees in the maintenance of

grounds and buildings, acts as storekeeper, issues and receives supplies, oversees and

NINTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, ST. LOUIS, MO.

[illegible]

¹⁴ This employee works under the supervision of the engineman. The duties consist of observing gages; acting as steam filter, plumber, and pipe coverer, and installing radiators. The duties are arduous and require heavy lifting, climbing ladders, and walking on catwalks.

¹⁵ This employee is responsible for the operation and maintenance of the heating and plumbing equipment of the building and monthly inspections of 5 stations.

¹⁶ This employee does manual work in heating and ventilating plants and assists with general cleaning.

¹⁷ This employee oils, greases, washes, and supplies trucks, drives if necessary, and acts as building janitor.

¹⁸ This employee supervises, plans schedules, checks firearms, and works with the guards in main office and 5 substations.

¹⁹ This employee supervises and works with other employees in the maintenance of grounds and buildings, acts as storekeeper, issues and receives supplies, oversees and inspects 5 stations, and supervises the guard force.

²⁰ This employee assists the fireman in the care of the heating plant, assists the gardener, does outside and inside cleaning, and removes ice and snow from the passageways. The maximum lifting load required is 200 pounds.

²¹ This employee supervises, inspects, and keeps records of the work of laborers and charwomen.

²² The employee loads and unloads sacks weighing from 125 to 150 pounds to and from loading platforms, trucks, and conveyors, dumps contents of sacks on tables for substitute clerks, repairs damaged sacks, and prepares undamaged sacks for redistribution.

²³ In addition to the regular duties of the position, the lampist is required to assist the electrician and act as relief elevator operator. The duties also require a 30-foot ladder to be climbed when necessary.

²⁴ The duties involve the minor repair of letter boxes on location, and sometimes replacing the damaged box with a new one, returning the damaged box to the building for repair. The mail boxes are constructed of heavy steel. Operation of a motor truck is required. The duties are arduous.

²⁵ This employee oversees charwomen and other female employees, assists with office work such as records, and acts as substitute telephone operator.

²⁶ This employee supervises and, if necessary, works with lower grade mechanics in the motor-vehicle service division.

²⁷ The duties of this position involve minor repairs on trucks and equipment, towing, and acting as chauffeur to local and distant points.

²⁸ This employee assists the chief mechanic in the repairs of motor vehicles.

²⁹ This is a general supervisory position. A large portion of the duties consist of office work.

³⁰ This employee cleans and oils moving conveyances which carry mail and watches for obstructions.

³¹ This employee also does plastering and glazing.

³² This employee works in the motor-vehicle service division.

³³ This employee observes operation of motor vehicles, arranges schedules and routes, and investigates accidents.

³⁴ This employee repairs scales, combinations, and safes. This involves the use of a kit weighing 160 pounds or more. The mechanic drives a truck in making calls to sub-establishments. The duties are arduous.

³⁵ This is a supervisory position.

³⁶ The employee repairs and maintains in working condition stapling and numbering machines, and repairs and tests firearms.

³⁷ The duties involve acting as timekeeper, storekeeper, and checker, and making daily schedules for employees of shop.

³⁸ This employee makes requisitions, and receives, stores, and issues supplies for the motor-vehicle service division.

³⁹ This employee also repairs clocks.

⁴⁰ This employee is armed. In addition to regular duties as watchman, he checks employees in and out of building, operates elevator as needed, and has charge of checking stand for employees.

⁴¹ A large portion of the work consists of lifting and welding heavy cylinders for conveyances.

⁴² In addition to the regular duties as window cleaner, this employee is required to move furniture and perform similar work as necessary. The duties are arduous.

POST OFFICE DEPARTMENT, POST OFFICE, OKLAHOMA CITY, OKLA.

1 The duties require the use of firearms, overhead reaching, exposure to climatic conditions, prolonged standing and/or locomotion, climbing of ladders, and walking along catwalks.

POST OFFICE DEPARTMENT, POST OFFICE, OKLAHOMA CITY, OKLA.

[illegible]

¹ This employee repairs and constructs furniture and builds partitions.

² This employee is required to drive a truck. The carrier handles all parcel-post packages which weigh 4 pounds or more.

³ The charwoman scrubs, sweeps, dusts, and polishes. Bending rotation, lifting, flexion and extension of body are involved in the performance of duties.

⁴ This employee supervises the activities of the custodial force, requisitions, issues, and accounts for supplies, and keeps records. These are mainly clerical duties.

⁵ The duties involve operating an electric or hydraulic passenger or freight elevator. There is no loading, although employee pushes 2-ton truck off and on the elevator (this could be assigned to a laborer).

⁶ This employee supervises firemen and mechanics in the operation and maintenance of boilers, pumps, motors, refrigeration, elevators, and sewer system. The duties are arduous.

⁷ The employee works under the supervision of the engineman. The duties consist of observing gages; acting as steam fitter, plumber, and pipe coverer; and installing radiators. The duties are arduous and require heavy lifting.

⁸ This employee is responsible for the operation and maintenance of entire mechanics of building and monthly inspections of 5 stations.

¹⁰ This employee supervises and works with other employees in the maintenance of grounds and buildings, acts as storekeeper, issues and receives supplies, oversees and inspects 5 stations, and supervises the guard force.

¹¹ The duties involve general cleaning, window washing, mopping, moving heavy furniture, marble polishing, and lampist duties.

¹² This employee assists the fireman in the care of the heating plant, assists the gardener, does outside and inside cleaning, and removes ice and snow from the passageways. The maximum lifting load is 200 pounds.

¹³ The employee is required to repair and maintain elevators, pumps, boilers, scales, letter boxes, canceling machines and water coolers, perform minor duties in connection with plumbing, pipe covering, and painting, and, in addition, act as lampist and assist cabinetmaker as carpenter when necessary.

¹⁴ In addition to duties as window cleaner, employee is required to move furniture and perform similar duties as necessary. Arduous physical exertion is required.

POST OFFICE DEPARTMENT, POST OFFICE, YUKON, OKLA.

¹ This employee uses a motor vehicle in the performance of his duties and may be required to operate a light tractor for mud and snow.

² This employee carries mail on foot to resident and business sections twice daily.

¹ This employee uses a motor vehicle in the performance of his duties and may be required to operate a light tractor for mud and snow.

2 This employee carries mail on foot to resident and business sections twice daily.

VETERANS' ADMINISTRATION, VETERANS' ADMINISTRATION HOSPITAL, JEFFERSON BARRACKS, MO.

1-38. 01

1-42. 31

2-27. 01

2-26. 10

2-42. 10

Storkeeper, subsistence ³⁵.....X
 Telephone operator.....X
 Waiter, head.....X
 Wall washer ³⁶.....X
 Ward attendant ³⁷.....X

¹ The duties include the driving of vehicles in traffic when necessary, repair of automobiles and trucks, the overhaul of engines, and driving a tow car.

² This employee oversees and performs duties involved in the baking of bread, pies, and other pastries.

³ This employee builds and repairs partitions and furniture, places linoleums, and may work on the roof. Ladders and scaffolds are used.

⁴ The duties involve sweeping, mopping, and dusting rooms and hallways and washing windows which can easily be reached by low steps. There is no strenuous lifting.

⁵ The employee cleans and oils machinery in boiler plant and shovels coal. Prolonged standing and excessive heat are involved.

⁶ In addition to regular cooking the duties include the canning and preserving of fruits and vegetables in season. Mechanical apparatus of various kinds are used.

⁷ This employee prepares patients for treatment, assists the dentist by handing him proper equipment, and cleans and sterilizes instruments.

⁸ This employee plans daily menus and special diets, orders supplies, keeps sufficient amount of supplies on hand, supervises activities of cook and the serving of food, oversees cleaning of kitchen, and aids in the preparation of plates in kitchen for serving in emergency.

⁹ This employee maintains electrical equipment in laundry, kitchen, fire-alarm system, radios, and operates moving-picture machinery. The duties involve working around moving machinery.

¹⁰ This employee works inside of drums and furnaces, handles cinders and ashes, and shovels coal. Exposure to heat and steam is involved. The duties are arduous.

¹¹ In addition to the duties of a gardener, this employee supervises workers employed in the upkeep of the grounds.

¹² This employee acts as chauffeur, as driver of trucks, laundry wagons, ambulance, tractors, garbage trucks, snow plows, and lawnmowers, and loads and unloads garbage and laundry, and directs traffic.

¹³ This employee supervises the janitors and maids and assists them if necessary.

¹⁴ The maximum lifting weight required is 100 pounds. The duties involve the sweeping, mopping, and scrubbing of rooms and hallways, and moving furniture. The duties are arduous.

¹⁵ The duties include testing urine, blood, and animal parasites, making blood counts and microscopical tests of smears, and preparing vaccines.

¹⁶ This employee washes glassware and performs simple tests such as urinalyses.

¹⁷ The employee performs general laborer duties which may or may not be arduous such as work on the roads, in the warehouse, boiler plant or laundry, or other work such as hedge trimming. The requests are made for laborers and the job is fitted to the physical capabilities of the person following his entrance on duty.

¹⁸ This employee stacks folded laundry in shelved compartments on the wall. This requires bending and overhead lifting. The duties are arduous.

¹⁹ The employee is required to place wet material into extractor machine, remove when

the excess moisture is extracted, and load into baskets. Prolonged standing, strength and agility are necessary.

²⁰ This employee operates an electric hand ironer. Prolonged standing is necessary.

²¹ This employee operates a large electric ironing machine. Prolonged standing is required.

²² A team of 2 is required to perform the duties of this position. Prolonged standing is necessary.

²³ The duties involve the preparation of laundry for routing to the wards such as bundling, placing in baskets, and checking. Prolonged standing is required.

²⁴ Prolonged standing is required.

²⁵ These duties include the operation of an electric sewing machine.

²⁶ This position requires prolonged standing in the operation of a large steam washer. The work is arduous.

²⁷ The duties of the position involve the preparation of meats for cooking by using knives, saws, cleavers, and mechanical apparatus. Prolonged standing and heavy lifting up to 200 pounds is necessary. The duties are arduous.

²⁸ This employee repairs refrigerators, lawn mowers, kitchen and laundry equipment, operates lathes, and does sheet-metal work, with some welding.

²⁹ The duties of this position include the cleaning, mopping, and polishing of dining-room floors, washing windows, delivering loaded food carriages to the wards, and serving in the dining room. Arduous physical exertion is required.

³⁰ This position requires considerable walking but employee may use elevator for travel from one floor to another.

³¹ This employee paints buildings, signs, and screens, refinishes furniture, and replaces glass. Work is done from ladders and scaffolds, both inside and outside.

³² In addition to regular duties as pharmacist, this employee may be required to perform assays and tests.

³³ This employee assembles, installs, and maintains gas, water, and water disposal systems, cares for thermostatic valves, and cleans hot-water tanks.

³⁴ This employee performs heavy steam-fitting duties, maintains central heating plant, and packs valves. He works in and out of manholes. Much of the work is underground in hot, cramped spaces. Arduous physical exertion is required.

³⁵ The maximum lifting weight required is more than 200 pounds. The duties are extremely arduous.

³⁶ The duties of the position involve the cleaning of walls and ceilings. Strenuous overhead work on ladders is required.

³⁷ The duties require routine care of patients such as lifting and turning patients in beds, keeping rooms clean, collecting and carrying trash from rooms, assisting with patients returning home in the ambulance or picking up patients for hospitalization, and carrying patients from rooms to ambulance by means of stretchers. The maximum lifting load is 200 pounds.

NINTH REGION—Continued

VETERANS' ADMINISTRATION, REGIONAL OFFICE, BUDER BLDG., ST. LOUIS, MO.

Code	Title of position	ORTHOPEDIC																				EYES		EARS		CHEST				
		Depth perception required	Color vision required	AMPUTATIONS										DISABILITIES																
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac
1-01.31	Accounts examiner ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-22.10	Adjudicator ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-22.10	Adjudication officer ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-22.10	Attorney, assistant chief ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-22.10	Attorney, chief ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-22.10	Authorization officer ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-57.40	Contact representative ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-48.08	Field examiner ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-01.20	Finance officer ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-01.20	Finance officer, assistant.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-48.25	Loan guarantee agent ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-48.25	Loan guarantee officer ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-23.14	Messenger ³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-22.10	Rating specialist, claims ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-09.32	Registrar ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-09.32	Registration officer ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-38.01	Supply clerk ⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-38.01	Supply officer ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-38.01	Supply officer, deputy ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.84	Training officer ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.81	Training officer, assistant ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.84	Training officer, chief ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.81	Training officer, senior ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.84	Vocational advisor.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.84	Vocational advisor, associate.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-39.84	Vocational rehabilitation officer.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ The duties are sedentary.

² The duties are essentially sedentary, although some travel is required.

³ This employee is required to service 3 floors and uses either the elevator or stairs.

⁴ This employee receives and issues supplies and operates a mimeograph machine.

27 The duties involve the use of firearms, operation of a motor vehicle, agility and strength

[illegible]

WAR DEPARTMENT, FORT LEONARD WOOD, MO.

WAR DEPARTMENT, ARMY SERVICE FORCES, FORT LEONARD WOOD, MO.

1 The duties of the position require the use of firearms, exposure to cold and dampness,

³ The duties of the position require the use of firearms and exposure to cold and dampness.

The duties of the position are arduous and require exposure to cold and dampness.

[illegible]

NINTH REGION—Continued

WAR DEPARTMENT, QUARTERMASTERS DEPOT, KANSAS CITY, MO.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST						
				DISABILITIES																								
				AMPUTATIONS							DISABILITIES							Blind, both eyes	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis					
Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis		
5-81.010	Automobile mechanic ¹																											
5-97.110	Automobile mechanic foreman ²																											
5-81.010	Automobile mechanic, general ³	X																										
7-87.010	Automobile mechanic helper ⁴	X																										
7-81.010	Automobile mechanic, junior ⁴	X																										
5-81.010	Automobile mechanic, senior ⁴	X																										
3-16.92	Baling foreman, renovation plant																											
9-65.18	Baling machine operator ⁶																											
3-39.14	Box maker, nailing-machine operator																											
8-39.14	Box maker, senior ⁷																											
9-65.18	Bundler, senior																											
5-25.110	Carpenter ⁸	X																										
5-25.110	Carpenter foreman ¹³	X																										
9-32.21	Carpenter helper ⁹																											
9-32.21	Carpenter helper, quartermaster ¹⁰																											
7-83.100	Carpenter, junior ¹¹	X																										
6-25.110	Carpenter, senior ¹¹	X																										
6-25.830	Carpenter, warehouse ¹³	X																										
0-07.02	Chemist	X																										
6-27.121	Clothing checker ¹⁴																											
4-27.121	Clothing examiner ¹⁰	X																										
7-57.522	Clothing sorter ¹⁴																											
2-86.10	Coal passer																											
4-97.010	Electrician ¹⁵	X																										
9-83.43	Electrician helper ¹⁴	X																										
7-95.100	Electrician, junior ⁶	X																										
4-97.010	Electrician, senior ¹⁷	X																										
5-83.921	Elevator mechanic	X																										
9-65.04	Elevator mechanic helper	X																										
5-83.921	Elevator mechanic, junior ¹⁶	X																										
5-83.921	Elevator mechanic, senior	X																										

1 This employee is supervisor of 2 to 4 lower-grade employees. Arduous physical exertion is required.

2 This employee supervises and instructs numerous employees engaged in the repair of automobiles and performs expert work when necessary.

3 This employee supervises and instructs several employees engaged in the repair of automobiles. Arduous physical exertion is required.

4 Arduous physical exertion is required.

5 This employee supervises 2 to 8 employees engaged in the repair of automobiles. Arduous physical exertion is required.

6 This employee uses a hand or electric baling machine in the performance of his duties. Two employees are required to perform the duties of this position.

7 This employee repairs and reconstructs wooden boxes with the use of simple carpentry tools.

8 This employee supervises and instructs lower grade employees.

9 The duties consist of simple and routine tasks such as repair and maintenance of tools.

10 This is mostly bench work.

11 The duties include the operation of power-driven machines. Some climbing of ladders is involved. Arduous physical exertion is required.

12 This employee supervises and instructs other employees, makes reports, and performs other technical duties.

13 In addition to supervising 1 or more helpers, the employee performs routine duties such as erasing, construction of bins, shelves, counters, and cabinets. This is mainly bench work. Prolonged standing is required.

14 This is bench work. The employee sorts clothing to be impregnated.

15 The employee supervises a small group. The duties are arduous.

16 The duties consist mostly of simple, routine work at a bench.

17 The duties include supervising and instructing others. The work is arduous.

18 This employee operates a calculator tractor with bulldozer and power shovel.

19 This employee operates an electric hoist, packs wet garments, and unpacks dry. Arduous physical exertion is required.

20 The employee supervises and instructs other employees, and if necessary, assists in unloading coal from cars and removing ashes.

21 This employee supervises and instructs others in the operation of stationary boilers and assists the coal passer in the performance of arduous duties as necessary.

22 This employee works in the renovation plant. Prolonged standing is involved.

23 This employee works in a renovation plant.

24 The operator loads and unloads the machine with clothing. The operator's body is extended over the machine to remove the clothing. A gas mask is worn. Arduous physical exertion is required.

25 This employee works in the cold-storage plant.

26 The duties are mainly supervisory.

27 The employee supervises and works with others.

28 The duties involve the preparation of material for baling clothing.

29 The employee greases, oils, and checks bearings of 4-wheel dollies, tractors, and fork-lift trucks.

30 This employee weighs and bands cartons, prepares for shipment, checks and packs. The weight of the bales which are sewed is 65 to 150 pounds. The duties involve prolonged standing and strong pulling power in the hands.

31 The employee moves crates to inspection room, opens, checks, inspects, remarks, reseals crates, and moves to proper location.

34 In addition to regular duties, the employee is required to repair and paint the framework of trucks. The duties are arduous.

35 This employee unpacks, checks, counts, segregates contents; bands with hand banding machine; paints and stencils outside markings; and weighs loaded or packed boxes. Prolonged standing is required.

36 The employee uses a crosscut sawing machine. Prolonged standing is required.

37 The employee uses a fork-lift truck. Arduous physical exertion and prolonged standing are required.

38 This employee works in a warehouse. The duties are arduous and prolonged standing is required.

39 The employee works with and around moving machinery and trucks. Arduous physical exertion is required.

40 Supervises 14 or more employees in power and heating plant.

41 This employee performs total packing functions including selection and assembly of items from bins or shelves, packs and secures container, and stencils for shipping. He also replenishes supplies on shelves and in bins, and supervises laborers.

42 This employee supervises the total packing operations of approximately 100 workers. Prolonged standing and/or walking is required.

43 This employee supervises 12 to 25 packers and 3 or more senior packers. This position involves prolonged standing and walking.

44 This employee performs total packing function of items of special nature and supervises laborers. The duties are arduous.

45 The employee assists in work and supervises 2 to 10 packers and a number of laborers in more difficult and technical packing. Arduous physical exertion is required.

46 The duties include spray painting from ladders and scaffolds. The employee may supervise and instruct others in this work.

47 The duties consist of elementary procedures by which surfaces to be painted are prepared.

48 This employee performs highly skilled work and may be required to supervise and instruct others. The duties involve working overhead from ladders and scaffolds and using a spray gun.

49 This employee supervises lower grade employees and performs highly skilled work. The duties involve working from ladders and scaffolds when necessary.

50 This employee supervises, instructs, and works with others.

51 The duties consist mainly of supervising, instructing, and assigning other employees.

52 This employee works in a renovation plant. Prolonged standing is required.

53 This employee supervises and assists trackmen in the maintenance and repair of trackage.

54 This is inspection work performed at a bench. Slight physical exertion is required.

55 The duties involve the handling of small articles. This employee is required to do some ladder climbing. The work is light to moderate.

56 This employee is responsible for all the utilities activity at depot. Prolonged standing and/or locomotion is involved.

57 Prolonged standing is necessary.

58 This employee repairs and inspects tents and cots, and supervises and instructs others.

59 This is inside work and involves excessive standing while operating the machine.

60 In addition to the regular duties as driver the work involves minor truck repairs.

61 The driver may also be required to drive a passenger car and assist in loading and unloading truck.

62 The work includes the operation of an electric hoist, pushing, packing, and unpacking wet garments. The duties are arduous and prolonged standing is necessary.

NINTH REGION—Continued

WAR DEPARTMENT, ST. LOUIS ENGINEER DISTRICT, ST. LOUIS, MO.

[illegible]

WAR DEPARTMENT, ST. LOUIS MEDICAL DEPOT, ST. LOUIS, MO.

[illegible]

- 1 The duties involve the checking of the contents of parcel-post packages.
- 2 This employee weighs boxes after packing (5 to 300 pounds), straps boxes, places boxes on skids, and acts as packer or laborer as needed. The duties are arduous.
- 3 This employee operates elevator from floors to shipping room, pulls down and pushes up elevator doors weighing around 700 pounds, and slides boxes and parcels on and off elevator. The duties are arduous.
- 4 In addition to inspecting and checking packed boxes before they are carried to the shipping room, the inspector may act as packer or laborer as needed. The duties are arduous.
- 5 In addition to driving and maintaining motor vehicle (inside) which pushes heavy loads on skids to elevator shaft, the operator is required to unload heavy boxes from skids. The duties are arduous.
- 6 This employee labels parcel post, freight, express and air packages, checks bills of lading, and paints corners of packages for export.
- 7 This employee loads and unloads boxes for shipment, assists in strapping, painting and labeling, stencils to and from destination on boxes, weighs and stencils weight in cubic feet and cubic inches on export packages.
- 8 The employee maintains a supply of wooden boxes (light to heavy), unassembled cartons, and other containers in portion of room where supply is accessible to laborers who supply 5 aisles or bays. The work is constant as the supply is kept ahead of the demand. The material is transported from the carpenter shop and basement storage via hand trucks, skids, and keps to elevator and then to floor. The duties are arduous.
- 9 This employee supplies new and used wooden boxes, paper cartons, glove boxes, and Q. M. chests to 15 checking aisles. These boxes, which range from light to heavy in weight, are transported from another floor and from the warehouse which is some distance away.
- 10 This employee sorts parcel-post packages from freight and express packages and distributes the parcels to aisles.
- 11 This employee uses a transfer to move the different shipments to the transportation department. When necessary he may fill in at other laboring positions. The duties are arduous.
- 12 This employee checks and packs fragile and nonfragile medical supplies and equip-

- ment for domestic and export shipment; weighs, paints, straps boxes, and nails on lids; and is responsible for the safe arrival of shipment.
- 13 This employee supervises 3 sections with 5 aisles to a section which includes more than 200 workers.
- 14 This employee is in charge of the workers in 5 aisles including 5 senior packers. The duties of the position involve supervising and instructing others as to the assembling and packing of various items, and the rules and regulations to be followed. The duties involve prolonged standing and walking on a cement floor.
- 15 The duties of this position require the employee to fill orders from the catalogue distribution room and to prepare parcel post and freight shipping orders. He also selects items from the vault and refrigerator and delivers them to employees engaged in actual packing duties.
- 16 This employee supervises and instructs from 2 to 10 packers, 1 to 3 laborers, and 1 to 6 typists engaged in assembling and packing material for domestic and export shipment. This includes the typing of requisitions, packing lists, labels, and shipping tickets.
- 17 This employee supervises 2 to 10 packers, 1 to 3 laborers, and 1 typist.
- 18 This employee routes work in equitable distribution to aisles, assigns radio (rush) requisitions and routes them through warehouse for immediate attention, supervises parcel-post aisle, runs down shortages, and locates space in basement for carload shipments. The duties involve prolonged standing and walking.
- 19 This employee is responsible for final inspection of parcel-post packages, including weight, size, labels, and condition.
- 20 This employee sweeps and cleans shipping and packing floor and performs other work of a janitorial nature. The duties of the position include the supplying of aisles with excelsior, corrugated and waterproof wrapping paper, cork, mineral wool, nails, kimpack, and other materials needed in the packing process. The work is arduous.
- 21 In addition to performing duties as stencil cutter, the employee assists in keeping the aisles supplied with boxes, cartons, and other packaging materials, and is utilized as a laborer in any position when needed.
- 22 The clerk receives requisitions, maintains book records, handles shipping dates on rush shipments, separates parcel-post shipments from freight, checks and inspects processed papers in warehouse aisles, records completed parcel post, registered mail, express, freight, and air shipments, answers the phone, and gives out information.

NINTH REGION—Continued

WAR DEPARTMENT, ST. LOUIS ORDNANCE DEPOT, ST. LOUIS, MO.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																					EYES	EARS	CHEST			
				AMPUTATIONS											DISABILITIES															
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders				Blind, both eyes	Industrially blind	Blind, one eye
5-97, 110	Automobile inspection and repair foreman																													
5-81, 910	Automobile mechanic, vehicle inspector	X	X																											
5-97, 110	Automobile body repair foreman	X	X																											
5-81, 510	Automobile body repairman	X	X																											
7-85, 010	Automobile greaser																													
5-81, 050	Automobile machinist	X	X																											
5-81, 010	Automobile mechanic ¹	X	X																											
5-81, 040	Automobile mechanic ²	X	X																											
5-81, 010	Automobile mechanic ³	X	X																											
7-85, 010	Automobile mechanic ⁴	X	X																											
9-85, 02	Automobile mechanic ⁵	X	X																											
5-81, 610	Automobile mechanic	X	X																											
5-81, 010	Automobile mechanic	X	X																											
5-97, 110	Automobile mechanic foreman	X	X																											
7-81, 010	Automobile mechanic helper ⁶	X	X																											
5-16, 910	Automobile mechanic painter ⁷	X	X																											
7-88, 424	Automobile mechanic, tire repair ⁸	X	X																											
5-81, 010	Automobile mechanic, vehicle repair ⁹	X	X																											
7-85, 010	Automobile service station attendant ⁹																													
5-89, 411	Batteryman																													
9-65, 36	Binner ¹⁰	X	X																											
9-65, 36	Binner ¹¹	X	X																											
9-65, 36	Binner ¹²	X	X																											
4-86, 010	Blacksmith	X	X																											
6-33, 918	Box maker ¹³	X	X																											
6-39, 114	Box maker ¹⁴	X	X																											
6-39, 114	Box maker ¹⁵	X	X																											
6-39, 114	Box maker ¹⁶	X	X																											
6-39, 114	Box maker ¹⁷	X	X																											
5-91, 553	Box maker, assistant foreman ¹⁸	X	X																											

Pulmonary tuber-
culosis

[illegible]

NINTH REGION—Continued

[illegible]

[illegible]

[illegible]

NINTH REGION—Continued

222

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																				EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back				Hips or shoulders																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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7-36. 260	Truck driver, medium ²⁴		X X X X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

¹ This is a supervisory position in which prolonged locomotion or standing is required.
² This employee may perform similar duties as the junior, and, in addition, inspect the test firing of guns in the air or on the ground. He works both inside and outside.
³ This employee inspects machine guns, cannons, bomb releases, mounts, and other parts of various armament.
⁴ This employee supervises, instructs, and works with lower grade employees.
⁵ This employee supervises 3 to 12 employees and assumes their duties as necessary. The duties require climbing and working in small spaces. Agility is essential.
⁶ This employee connects, checks, and installs batteries for aircraft, drives a tug from plane to plane, exchanges batteries and rewires. Strenuous physical exertion is involved. He works both inside and outside.
⁷ This employee supervises and performs similar duties as aircraft serviceman helper.
⁸ This employee recharges, checks, re-rubbers, paints, assembles and re-leads, and installs batteries. Arduous exertion is required. He is exposed to acid and molten lead.
⁹ This employee performs similar duties as the aircraft serviceman helper and aircraft battery serviceman. He also supervises 3 to 12 employees.
¹⁰ This employee inspects tubing and various lines, and checks cables and fittings. The duties involve sitting or prolonged standing, depending on the material checked.
¹¹ This employee performs bench duties.

¹² This employee inspects parts and subassemblies of parts. The duties are partly sedentary.
¹³ This is a supervisory position which requires prolonged locomotion or standing.
¹⁴ This employee performs tasks similar to the junior repairer, and in addition, does trouble shooting.
¹⁵ This employee disassembles, cleans, paints, and assembles carburetors and parts. This is mostly bench work.
¹⁶ This employee supervises 50 or more employees. The duties may require prolonged locomotion, some climbing, and light to moderate physical exertion.
¹⁷ The duties involve prolonged standing or locomotion, exposure to live steam and solvents, and arduous exertion. The work is both inside and outside.
¹⁸ This employee supervises men engaged in the washing of disassembled aircraft parts. Prolonged locomotion may be required. He may be exposed to the hazard of live steam.
¹⁹ This position involves arduous physical exertion, working in strained positions, and doing heavy lifting. The danger of falling or being struck by falling objects makes the work hazardous.
²⁰ This position involves arduous physical exertion such as lifting and working in strained positions. The duties are hazardous. He works in and out of the plane.

- ¹ This is a supervisory position requiring prolonged locomotion and climbing in and out of aircraft.
- ² This employee is engaged in the installation of aircraft electrical accessories.
- ³ This employee supervises 3 to 12 lower grade employees and assists the shift foreman in supervising 25 others. He also assumes the duties of lower grade employees as required.
- ⁴ This employee is engaged in the installation of aircraft radio and electronic equipment. The duties are active and require working in strained positions. He works both inside and outside.
- ⁵ This employee supervises 60 employees engaged in the installation of all types of electrical accessories.
- ⁶ This is bench work which requires eye-hand coordination.
- ⁷ This employee inspects watches and electrical instruments. This is bench work and requires eye-hand coordination.
- ⁸ This is a supervisory position.
- ⁹ This employee disassembles, cleans, replaces parts, and assembles and tests certain electrical instruments. This is bench work.
- ¹⁰ This employee supervises and works with 12 to 30 lower grade employees engaged in the repair of aircraft electrical instruments.
- ¹¹ This employee performs duties similar to but more difficult than the helper. This is mainly bench work.
- ¹² This employee supervises and works with lower grade employees in the assembly of radial engines.
- ¹³ This employee instructs and works with lower grade employees in the assembly of in-line aircraft engines.
- ¹⁴ This employee instructs and does the work of lower grade employees in the assembly of crankshafts and crankcases for radial aircraft engines.
- ¹⁵ This employee assembles and installs certain parts of in-line aircraft engines. This is mostly bench work.
- ¹⁶ This employee wires, installs parts, and washes and cleans engines in the assembly of radial engines. This is mostly bench work.
- ¹⁷ This employee polishes, cleans, installs and assembles certain parts of the crankcase and shaft for radial engines.
- ¹⁸ This is a supervisory position in the assembly of in-line aircraft engines and requires prolonged locomotion or standing.
- ¹⁹ This is a supervisory position in the assembly of crankshafts and reduction gear for radial engines. It may require prolonged locomotion or standing.
- ²⁰ This employee supervises and works with lower grade employees. The duties are partly sedentary.
- ²¹ This employee inspects cleaners, pumps, and other parts. The duties are partly sedentary.
- ²² This employee inspects parts of and installation of crankshaft and crankcase for in-line engines. The duties are partly sedentary.
- ²³ This employee inspects crankshaft parts and installation of rods on crankcases for radial engines.
- ²⁴ This employee inspects the entire engine and parts of the engine. The duties are partly sedentary.
- ²⁵ This employee is the assembly inspector for the radial engine blower sections. The duties are partly sedentary.
- ²⁶ This employee inspects parts of and assembly of crankshafts for radial engines.
- ²⁷ This is a supervisory position. The employee performs inspection duties as necessary.
- ²⁸ This is a supervisory job. There is excessive noise.
- ²⁹ This employee inspects and performs tests on engines.
- ³⁰ This position requires heavy lifting and pulling. Falling articles make the work hazardous. There is excessive noise.
- ³¹ This employee supervises and works with 3 to 35 lower grade employees. There is heavy lifting and pulling. It is extremely noisy.
- ³² This employee supervises and works with lower grade employees in the assembly of blower sections for radial engines.
- ³³ This is a supervisory position in the disassembly and cleaning of aircraft engines and may require prolonged locomotion or standing.
- ³⁴ This employee inspects cylinders and parts of cylinders. The duties are partly sedentary.
- ³⁵ This employee inspects cylinders and parts of in-line aircraft engines. The duties are partly sedentary.
- ³⁶ This employee helps with the repair of in-line aircraft engines. This is bench work.
- ³⁷ This employee instructs and performs similar tasks as lower grade employees in the repair of in-line aircraft engines.
- ³⁸ This employee inspects cylinders for proper honing and grinding. The duties are partly sedentary.
- ³⁹ This employee uses precision gages in the inspection of cylinders for radial engines. The duties are partly sedentary.
- ⁴⁰ This employee supervises and works with lower grade employees in the inspection of aircraft engine cylinders for proper honing and grinding. He uses precision instruments. The duties are partly sedentary.
- ⁴¹ This employee supervises employees engaged in repairing engine cylinders, pistons and pumps.
- ⁴² This is a supervisory position in the repair of rocker arms and cylinder banks and may require prolonged locomotion or standing.
- ⁴³ This employee inspects connecting rods and parts. The duties are partly sedentary.
- ⁴⁴ This employee assists in the repair of aircraft engine connecting rods. He removes nicks, burrs, and galls by using oil stone. He also polishes, cleans, and straightens the rods.
- ⁴⁵ This employee assists in the repairing, mounting, checking, and installing of aircraft connecting rods and in the checking and installing of parts.
- ⁴⁶ This employee supervises and works with 3 to 12 lower grade employees in the repair of aircraft engine connecting rods.
- ⁴⁷ This employee instructs juniors and helpers and checks the work done on connecting rods.
- ⁴⁸ This employee installs valves and valve parts, tightens nuts and performs the duties of helper.
- ⁴⁹ This position requires strenuous physical exertion and exposure to dirt and grease.
- ⁵⁰ This position requires strenuous physical exertion. The employee supervises and works with 35 lower grade employees.
- ⁵¹ This employee washes engine parts in vats and loads and unloads trucks containing engine parts. The duties require arduous physical exertion and exposure to fumes and dirt. He works both outside and inside.
- ⁵² The duties involve strenuous physical exertion, exposure to dirt and fumes, prolonged standing, and both outside and inside work.
- ⁵³ The duties are partly sedentary.
- ⁵⁴ This employee instructs and performs the same duties as junior in the inspection of pumps, shafts, gears and completed assembly for radial aircraft engines.
- ⁵⁵ This employee uses precision gages in the inspection of blower section parts of radial engines and their installation. The duties may require prolonged standing.
- ⁵⁶ This employee inspects pumps, shafts, gears and completed assembly for radial engines. The work is partly sedentary.

- 17 This is a supervisory position which requires some use of both arms and both hands, and prolonged locomotion.
- 18 This is a supervisory position which may or may not require prolonged walking and some climbing.
- 19 This employee installs engine mount on dolly, uncrates the engine, removes grease from the parts, and removes or installs certain engine parts. The duties require arduous exertion, lifting up to 100 pounds and prolonged locomotion or standing.
- 20 This employee instructs and performs the tasks of lower grade employees. The duties are arduous and hazardous.
- 21 This employee uncrates engines and cleans, lays out, and installs engine accessories. He may work in cockpits. The duties are hazardous and arduous, and involve lifting up to 100 pounds.
- 22 This employee installs engine accessories and performs the tasks of helpers. The duties are arduous and hazardous, and climbing is required.
- 23 This employee cleans, checks, replaces, straightens, and files pipe intake and parts.
- 24 This employee inspects various parts of aircraft engines. The duties are partly sedentary.
- 25 This employee disassembles, replaces worn parts, assembles, and tests oil filters. This is bench work.
- 26 This employee repairs and reassembles auto head motors and performs the tasks of lower grade employees.
- 27 This employee removes rust and corrosion from parts, using buffing wheels, stones, files, abrasive cloth or sand machine. Dust and flying particles make the work hazardous. He works in tiresome positions.
- 28 This employee supervises 50 lower grade employees engaged in washing, cleaning, and buffing engine parts. Prolonged locomotion or standing is required.
- 29 This is a supervisory position. The employee may perform the final inspection duties. The work is partly sedentary.
- 30 This employee removes the roughness from parts and paints them with a spray gun or brush. Prolonged standing and exposure to fumes is involved.
- 31 This employee supervises and works with lower grade employees. Prolonged standing and exposure to fumes is involved.
- 32 This employee examines engine parts for cleanliness, places the engine on a rack and oils the parts.
- 33 This employee uses a brush or spray gun. Prolonged standing and exposure to fumes is involved.
- 34 This employee inspects pistons and rings. The work is partly sedentary.
- 35 This employee polishes, gaps, removes nicks and burrs, and washes piston rings and cylinders.
- 36 This employee performs the tasks of helper and assists in the more difficult work.
- 37 This employee faces, reams, checks, replaces, and assembles pumps and parts.
- 38 This employee removes nicks and burrs, clears threads, cleans, and polishes pump parts.
- 39 This employee inspects rejected engines and their overhaul. The work is partly sedentary.
- 40 This employee disassembles, cleans, replaces worn parts, assembles, times, and adjusts aircraft engines.
- 41 This employee supervises and works with employees engaged in making engines rejected from the test block serviceable. The duties are active and the employee works in strained positions.
- 42 This employee inspects aircraft engine reduction gear and parts. The work is partly sedentary.
- 103 This employee assembles, mounts, and installs parts of reduction gears.
- 104 This employee removes parts of cylinders, cleans, installs and seals jackets, and tests for leaks in the repair of in-line aircraft engines.
- 105 This employee supervises and works with lower grade employees in the inspection of rejected aircraft engines.
- 106 The duties involve consultation on the inspection of rejected aircraft engines. The employee may use precision gages. The duties may require prolonged locomotion or standing.
- 107 This employee disassembles, cleans, installs, and checks rocker arms and parts.
- 108 This employee instructs and performs similar duties of helpers.
- 109 This employee supervises men engaged in the conditioning of aircraft engines for storage. The work involves prolonged locomotion or standing.
- 110 This employee inspects stored engines for missing parts and film bags.
- 111 This employee assists in the conditioning of aircraft engines for storage. This includes the bolting of the engine on shipping box, covering with cellophane envelope, withdrawing air from the envelope and sealing.
- 112 This employee cleans the engine and various parts, treats for rust prevention, and checks the completed engine before it is prepared for storage or shipping.
- 113 This employee supervises 120 employees engaged in the repair of engine crankcases, crankshafts, and superchargers. The duties may require prolonged locomotion or standing.
- 114 This employee assists in the repair of aircraft engine superchargers. He uses a buffing wheel to polish, clean, and remove nicks and burrs from the impeller shafts. The duties are active. There are hazards of cuts and abrasions.
- 115 The duties may require operation of a power machine, or stretching fabric on wings and hand stitching the fabric. Prolonged standing and working in strained positions is involved. The duties may be sedentary.
- 116 The duties are arduous. Lifting up to 100 pounds and working in strained positions is required. The work is hazardous.
- 117 This employee supervises and performs the tasks of juniors. He inspects disassembled parts and units undergoing tests.
- 118 This employee disassembles, cleans, assembles, and installs generators and parts.
- 119 This employee assembles and installs parts of generators.
- 120 This employee assembles parts of machine guns and cannons. The duties involve lifting up to 100 pounds, working in strained positions, and excessive noise.
- 121 This employee disassembles and cleans machine guns and cannons and removes cosoline from parts. The duties include lifting up to 100 pounds.
- 122 This employee disassembles, cleans, repairs, assembles, and tests gyros.
- 123 This employee inspects gyroscopic parts and assembled instruments.
- 124 This is bench work similar to that of a helper. Eye-hand coordination is essential.
- 125 This employee removes, cleans, and installs hydraulic equipment. The duties are arduous and involve climbing and working in strained positions. He works both inside and outside of planes.
- 126 This employee disassembles, cleans, reassembles, and tests parts. The duties are partly sedentary depending on the parts handled.
- 127 This employee inspects parts and the general operation of ignition manifolds, condemning or recommending the completed job. This may or may not be a part time sedentary job.
- 128 This employee supervises 50 employees engaged in disassembling, repairing, assembling, and testing ignition parts.
- 129 This employee wires, solders, checks, and installs ignition parts.
- 130 This employee disassembles, cleans, repairs, wires, and mounts ignition parts.
- 131 This employee disassembles, cleans, repairs, wires, and mounts ignition parts.

- ¹² This employee works on the inspection of aircraft pressure and geared instruments.
- ¹³ This employee inspects aircraft pressure and geared instruments and tests the instruments visually or by means of precision instruments.
- ¹⁴ This employee brushes parts of aircraft instruments with luminous paint at a bench. The work is tedious, requires steady hands, and exposes the repairer to radium.
- ¹⁵ The duties involve the supervision of employees engaged in the repair of aircraft pressure and geared instruments. They may require prolonged locomotion.
- ¹⁶ This employee supervises, instructs, and performs similar duties of lower grade employees engaged in the repair of aircraft pressure and geared instruments.
- ¹⁷ This employee disassembles, cleans, replaces parts, tests and reassembles pressure and geared instruments. This is mostly bench work requiring eye-hand coordination.
- ¹⁸ This employee assists as repairman on aircraft pressure and geared instruments. This is mostly bench work requiring eye-hand coordination.
- ¹⁹ This employee instructs and works with others engaged in the servicing of aircraft instruments.
- ²⁰ This is a supervisory position which may require some outside work.
- ²¹ This employee removes, installs, adjusts, and tests instrument panel parts in the shop or on the line. He works in strained positions and the duties involve both inside and outside work.
- ²² This employee works in strained positions in the shop or on the line. He works both inside and outside.
- ²³ This employee supervises and installs, aligns, calibrates, and tests various instruments such as magnetic, optical, and gyroscopic. He works in strained positions. This is both outside and inside work.
- ²⁴ This employee assists in the inspection of parts and the testing of subassemblies and assemblies on aircraft landing gear and hydraulic equipment. He uses precision instruments.
- ²⁵ This employee instructs and works with men engaged in the disassembling, cleaning, repairing, and replacing of parts and the reassembling and installing of aircraft landing gear equipment.
- ²⁶ He assists in the disassembling, cleaning, repairing and replacing of parts, and the reassembling and installing of aircraft landing gear equipment. The work is arduous.
- ²⁷ This employee supervises men engaged in the disassembling, cleaning, repairing, and replacing of parts and the reassembling and installing of aircraft landing gear equipment. The work may involve prolonged locomotion.
- ²⁸ He assists in the disassembling, cleaning, repairing and replacing of parts and the reassembling and installing of aircraft landing gear equipment. The work is strenuous and involves lifting from 50 to 100 pounds. There is a hazard from falling objects.
- ²⁹ This work involves arduous labor, prolonged standing and much lifting.
- ³⁰ This employee supervises and works with lower grade employees. The work involves lifting and prolonged standing.
- ³¹ This employee inspects parts and the general operation of magnetos, condemning or recommending the completed job.
- ³² This employee supervises and works with 3 to 12 lower grade employees and assists in the supervision of employees under the shift foreman. This is mostly bench work.
- ³³ This employee instructs and performs similar duties of lower grade employees. The duties are performed at a bench.
- ³⁴ This employee disassembles, cleans and paints magnetos. This is mostly bench work.
- ³⁵ This employee subassembles, installs, recharges, rebuilds, and adjusts magnetos. This is mostly bench work.
- ³⁶ The duties involve washing and cleaning disassembled magneto parts. Prolonged standing or locomotion is required. The employees are subject to dermatitis and exposure to vapors.
- ³⁷ The duties often require prolonged locomotion.
- ³⁸ The duties involve the manufacture of special metal parts and the installation of special equipment.
- ³⁹ The employee disassembles damaged metal surface parts, drills holes, rivets, shapes, and repairs. He works in strained positions and may do prolonged standing. There is danger from metal cuts.
- ⁴⁰ This employee cleans fuel and oil tanks using solvents and live steam and removes and cleans the fittings of tanks. He works in strained positions. The duties are arduous.
- ⁴¹ This employee rivets or welds patches, installs fittings, seals leaks, and repairs the damaged parts of tanks. The position involves arduous duties and working in strained positions.
- ⁴² This employee instructs and works with lower grade employees. They cut, form, fit and install new sections on metal tanks and repair various types of radiators. The duties of the position are arduous. The worker is exposed to fumes and subjected to acid burns.
- ⁴³ This employee assists in the inspection of aircraft cameras and optical instruments. The duties may be performed at a bench.
- ⁴⁴ This employee overhauls, cleans, and inspects optical instruments. The duties are performed at a bench and require eye-hand coordination.
- ⁴⁵ This employee disassembles, cleans, repairs, and assembles cameras and similar instruments. The duties are performed at a bench and require eye-hand coordination.
- ⁴⁶ This employee supervises and performs the tasks of lower grade employees engaged in disassembling, cleaning, repairing, calibrating, assembling, and testing time pieces and photographic instruments. The duties are sedentary.
- ⁴⁷ This employee works in strained positions and is subjected to fumes and danger from dope explosion. Prolonged standing is required.
- ⁴⁸ This employee instructs and works with lower grade employees. He is subjected to fumes and gases.
- ⁴⁹ This employee prepares aircraft parts for storage to protect against rust. He cleans the parts by steam or by dipping in a gasoline mixture. He then dips them in an oil mixture, grease mixture, or plastic mixture, depending on the part. After dipping he wraps and seals the treated parts to protect them while in storage. The employee is exposed to fumes and grease. Certain jobs permit prolonged sitting.
- ⁵⁰ This employee operates a sandblasting machine to clean ignition manifold parts. He works in strained positions and is exposed to dust and the hazards of silicosis.
- ⁵¹ This employee sorts and groups small parts, treats with rust preventative, and boxes for stock or for shipment.
- ⁵² This employee inspects the most responsible assemblies of parts and inspects the parts condemned by juniors.
- ⁵³ This employee inspects and tests assemblies, rejecting or passing the job.
- ⁵⁴ This employee disassembles and cleans the parts of pumps and governors. Prolonged standing or locomotion is involved.
- ⁵⁵ This employee performs similar duties as those of helper and the more difficult tasks in repairing.
- ⁵⁶ This employee works as helper in the repair of aircraft metal tanks and radiators. The duties are arduous and there are hazards from live steam and acid vapors.
- ⁵⁷ This is mostly sedentary work although some standing may be necessary. This employee disassembles, cleans, repairs, assemblies, and inspects radiators and radiator parts.

- ¹⁷⁸ This employee may perform helper duties. He rivets or welds patches, removes dents by hammering, and does general repair work. The duties involve danger from fumes and burns.
- ¹⁷⁹ This employee instructs and works with men engaged in the installation of aircraft radios.
- ¹⁸⁰ This employee assists in the cutting, numbering, taping, lacing, assembling, and soldering of the wires in the installation of aircraft radios. These are bench duties which require prolonged standing and working in strained positions.
- ¹⁸¹ This employee supervises employees engaged in dismantling and sorting airframe parts.
- ¹⁸² This employee makes complete inspection of damaged aircraft and recommends the various parts to be salvaged. The duties are active and require climbing. He works both outside and inside.
- ¹⁸³ This employee ties down aircraft, keeps reclamation yard clean, loads defective aircraft parts on the dolly and delivers the parts to proper sections. The work is arduous and requires climbing.
- ¹⁸⁴ This employee supervises, instructs, and works with lower grade employees. The work is arduous, requires some climbing, and lifting up to 100 pounds.
- ¹⁸⁵ This employee instructs the juniors and helpers and performs the more difficult tasks.
- ¹⁸⁶ The duties involve climbing and prolonged locomotion or standing. The activities of this job require full physical fitness.
- ¹⁸⁷ The duties are arduous, involve lifting, and danger from slipping or falling parts. Agility is essential.
- ¹⁸⁸ This employee instructs and works with helpers. The duties are arduous and involve heavy lifting and working in strained positions.
- ¹⁸⁹ This employee installs rubber tanks and self-sealing fuel cells. He checks, treats, connects fittings and places in proper places. The duties are active and require lifting and working in strained positions.
- ¹⁹⁰ This employee cleans and buffs tanks, cuts, forms and cements rubber patches, and loads tanks, de-icers, tires, and tubes. He works in strained positions and is exposed to toxic fumes.
- ¹⁹¹ This employee instructs and performs similar tasks of helpers. He works in strained positions and is exposed to toxic fumes.
- ¹⁹² This employee performs similar duties as helper. He repairs rubber equipment such as life vests, rafts, de-icers, and boots. He works in strained positions and is exposed to toxic fumes.
- ¹⁹³ This employee instructs and performs the tasks of lower grade employees. He makes 30-minute ground runs of the planes checking and adjusting certain parts. The work is arduous and it involves climbing and working in cramped positions and around moving objects.
- ¹⁹⁴ This employee removes and installs various parts of aircraft, fills oil and gas tanks, cleans inside and outside of planes, and tows planes to and from hangars. The work involves lifting and climbing, working in strained positions, and danger from fire, explosion, and moving objects. Arduous physical exertion is required.
- ¹⁹⁵ The duties involve electrical repairs or adjustments of aircraft, final check before flight, checks and tests while on flight, and he may be required to serve as a member of the crew. He works in strained positions. He does both outside and inside work.
- ¹⁹⁶ This employee performs the duties of servicing electrician on ground level or in flight. He is exposed to the weather and works in strained positions and at high altitudes.
- ¹⁹⁷ This employee works mostly at a bench but he may operate a power machine. The duties require prolonged standing and light physical exertion.
- ¹⁹⁸ This is a supervisory position which requires some climbing and walking.
- ¹⁹⁹ The duties of this position consist of both bench work and more arduous work on planes.
- ²⁰⁰ This employee supervises and performs similar inspection duties as juniors on aircraft starters and generators.
- ²⁰¹ This employee inspects disassembled parts.
- ²⁰² This employee disassembles, cleans, assembles, checks, and installs starters and generators.
- ²⁰³ This employee assembles and installs various parts of starters and generators.
- ²⁰⁴ This employee instructs and performs the duties of junior and helper aircraft starter and generator repairer.
- ²⁰⁵ This employee disassembles, cleans, assembles, and installs starters.
- ²⁰⁶ This employee disassembles, cleans, and crates turbo-superchargers.
- ²⁰⁷ This employee saws sheet metal on a do-all saw. This is partly bench work and requires prolonged standing. The moving saw is a hazard.
- ²⁰⁸ This is a supervisory position in the making of sheet-metal templates.
- ²⁰⁹ The duties involve bench work and the operation of power machines in the manufacture of sheet-metal templates. Prolonged standing is required and there is danger of cuts and abrasions.
- ²¹⁰ This is mostly bench work but may require prolonged standing. The employee cuts, flares, bends, files, and cleans metal tubing. He works in strained positions.
- ²¹¹ This employee performs similar duties as helper. In addition, he bends tubing and installs it in various accessories. He works in strained positions and may be required to do prolonged standing.
- ²¹² This employee inspects and checks all assembly operations of superchargers.
- ²¹³ This employee supervises lower grade employees and assists in inspecting assembly operations of superchargers.
- ²¹⁴ This employee overhauls, reassembles, and tests turrets and bombardment equipment. He lifts up to 100 pounds and works in strained positions.
- ²¹⁵ This employee instructs and works with lower grade employees. He does electric or acetylene welding on difficult surfaces which involves working in strained positions.
- ²¹⁶ This employee cuts metal with an acetylene torch and saw and performs various types of welding. His duties involve working in strained positions and the danger of being burned. He wears a hood.
- ²¹⁷ This employee performs the same and more difficult welding duties as those of helper. The same hazards are present.
- ²¹⁸ This employee instructs helpers. The duties are arduous and involve working in strained positions and danger from metal splinters.
- ²¹⁹ The duties are arduous and involve working in strained positions and danger from metal splinters.
- ²²⁰ This employee supervises employees engaged in the loading and unloading of cargo and in the general operation of trucks.
- ²²¹ This employee supervises men engaged in the repair of bomb-sights and flight-control equipment.
- ²²² This employee supervises men engaged in the repair of bomb-sights and flight-control instruments. The work often requires prolonged locomotion or standing.
- ²²³ This employee inspects bomb-sights and flight-control equipment. This is largely bench work.
- ²²⁴ This employee instructs and performs similar duties as helpers and juniors. This is close visual work and requires manual dexterity. He may instruct pilots while aircraft is in the air.

- ²² This is extremely close visual work and requires manual dexterity. The employee disassembles, cleans, assembles, adjusts, and calibrates bomb sights and performs similar work with flight gyroscopes. He uses the dental lathe.
- ²³ This employee works with bomb sights and flight gyroscopes. Manual dexterity and close visual work is involved.
- ²⁴ This employee supervises and works with lower grade employees. He may be required to perform duties while aircraft is in flight.
- ²⁵ This employee drives a truck to the scene of the crash and directs the dismantling and other activities connected with the crashed plane. He drives both on and off the depot. He also operates cranes. The work is arduous and involves the hazards of fires, explosions, and falling objects.
- ²⁶ This employee operates woodworking machinery, crates heavy and bulky equipment, weights boxes when packed, and stencils and stripes the crates.
- ²⁷ This employee supervises 100 to 250 employees engaged in crating heavy equipment.
- ²⁸ This employee constructs special packing crates and crates, blocks, and braces heavy and bulky equipment.
- ²⁹ The duties involve prolonged standing. The work is hazardous because of the moving saw blade.
- ³⁰ This employee sets up moulds and operates the drop hammer. He performs the duties of a sheet-metal worker when not operating the hammer. The work is arduous and involves lifting and manual hammering.
- ³¹ This employee cleans, unwinds, scrapes, clips, bakes, and greases certain parts of motors. This is mostly bench work.
- ³² This employee instructs and works with men engaged in the repair of electronic equipment. The duties involve close visual work.
- ³³ This employee disassembles, cleans, paints, solders, and assembles electronic equipment. Close visual work is involved.
- ³⁴ There are hazards from dust due to buffing and sandblasting, toxic fumes, and acids and alkalis which may cause burns.
- ³⁵ This is a supervisory position. It involves exposure to fumes and danger from burns and poisonous solutions.
- ³⁶ This employee supervises men engaged in electroplating, sandblasting, and metal polishing.
- ³⁷ This employee assists in preparing aircraft engines for installation and adjusts and checks parts of the engine. The work is arduous and requires lifting up to 100 pounds and prolonged standing or locomotion.
- ³⁸ This employee disassembles, cleans, and assembles bomb sights, tests units, tubes, and other parts, and performs tests while the craft is in air. Eye-hand coordination is essential. This is partly bench work.
- ³⁹ This employee instructs helpers and performs tests while the plane is in the air. Eye-hand coordination is essential. This is partly bench work.
- ⁴⁰ This employee disassembles the frames of aircraft, tags the parts, loads and delivers to proper sections and washes and cleans the parts. The duties are arduous and involve lifting up to 100 pounds, climbing, and working in strained positions. He is exposed to climatic conditions.
- ⁴¹ This employee performs helper duties and also operates overhead cranes. The duties are hazardous and strenuous. They involve working in strained positions, lifting up to 100 pounds, and climbing.
- ⁴² This employee checks containers for damage, checks bills of lading, and segregates damaged containers and misdirected shipments.
- ⁴³ This is a supervisory position. The duties include prolonged locomotion and some hazard from burns or exploding cylinders.
- ⁴⁴ This employee fills cylinders such as the fire extinguisher and life vest and inflates. He disassembles, cleans, replaces, and assembles parts. The work is arduous and involves lifting.
- ⁴⁵ The carbon dioxide and danger of exploding cylinders present hazards.
- ⁴⁶ This employee operates a gasoline high-lift fork to move and stack exceptionally heavy and bulky objects. This is active work and there is danger of material falling or of fork overturning. He is subjected to extreme temperature changes.
- ⁴⁷ This employee assists in repairing hydraulic landing gear. This includes the disassembling, cleaning of parts, grinding of brake drums, reassembling, and testing. The presence of emory dust creates a hazard. The work is arduous and requires lifting from 50 to 100 pounds.
- ⁴⁸ This employee supervises 60 or more employees engaged in the repair of hydraulic landing gear and other hydraulic equipment.
- ⁴⁹ This employee brushes or sprays instrument cases, dials, indicators, and numerals. The work is hazardous because of the fumes and radium.
- ⁵⁰ This employee supervises 100 to 150 lower grade employees and drives a light truck.
- ⁵¹ This employee supervises and works with lower grade laborers. The duties are usually associated with the maintenance and care of the buildings and grounds.
- ⁵² The duties include simple tasks involving muscular effort, strenuous and active duties, heavy lifting, and outside work.
- ⁵³ The work is arduous and hazardous and involves lifting up to 75 pounds.
- ⁵⁴ This is a supervisory position. Occasional climbing is necessary.
- ⁵⁵ This employee instructs and performs the same or similar duties as helper. The work is arduous and hazardous. It requires lifting up to 75 pounds and climbing.
- ⁵⁶ This employee removes, checks, installs, and adjusts parts of landing gears, hydraulic lines, and other mechanisms. The work is arduous and hazardous. It involves climbing and lifting up to 75 pounds.
- ⁵⁷ The duties require agility and strength, exposure to climatic conditions, and frequent climbing of steps.
- ⁵⁸ This employee packs items in boxes for shipping, alters the boxes to proper size, nails tops on wooden boxes or seals cardboard boxes, bands boxes as necessary, stencils boxes for mailing and loads boxes on the dolly.
- ⁵⁹ This employee supervises many employees located in 10 to 14 warehouses. This requires prolonged locomotion or standing and may require operation of a motor vehicle.
- ⁶⁰ The duties involve the supervision of employees who themselves supervise 200 to 250 lower grade employees. Prolonged locomotion or standing is required and operation of a motor vehicle may be necessary.
- ⁶¹ This employee supervises and performs the duties of lower grade employees, crates planes, sections of planes and other bulky or heavy equipment, and operates a power saw.
- ⁶² This employee instructs and works with lower grade employees and also mixes paints to match colors and stains.
- ⁶³ This is a supervisory position which requires walking, some climbing of ladders, and the use of scaffolds.
- ⁶⁴ This employee works inside and outside. He does flat painting and stenciling using both the brush and spray method. He climbs ladders and works on scaffolds. The work is hazardous because of the presence of toxic fumes.
- ⁶⁵ This employee removes corrosion and blemishes from parts by means of buffing wheel, stones, files, abrasive cloth, or similar methods.
- ⁶⁶ The duties involve the inspection of incoming parts to determine serviceability. Most of the inspector positions are mainly sedentary while a few specific jobs require prolonged standing.
- ⁶⁷ The duties may require prolonged locomotion.

- ²³ This employee supervises and performs the tasks of lower grade employees. The work involves repetitive finger and hand movements.
- ²⁴ This employee operates a spot-welding machine. The duties are sedentary, active, and involve the burn hazard.
- ²⁵ Prolonged locomotion and the operation of a scooter or tug is required.
- ²⁶ This employee supervises 30 to 40 tug operators and stock tracers and performs these duties when necessary.
- ²⁷ This employee receives, checks, and classifies incoming materials.
- ²⁸ This employee receives, unpacks, weighs, counts, and examines shipments of material, labels and tags, stores, locates, counts, and weighs and segregates materials for shipment or issuance. The duties may be arduous, depending on the type of material handled. (This position is often termed "checker").
- ²⁹ This employee repairs and adjusts watches, clocks, and other timekeeping apparatus. This is bench work.
- ³⁰ This employee supervises and works with lower grade employees. This is bench work. Close eye-hand coordination is essential.
- ³¹ This employee operates trucks of more than 4-ton capacity including heavy dump trucks used in construction and excavation work, and trucks with attachments such as scrapers and snow plows. The duties are strenuous and arduous.
- ³² This employee operates a medium truck in connection with bauling, delivering, and towing. The duties are active. This is outside work.
- ³³ This employee operates a gasoline tug usually with trailer behind, and assists in loading and unloading as required. The body trunk must be free as employee drives while in strained positions. The work is arduous.
- ³⁴ This employee supervises and performs similar duties of 3 to 12 lower grade employees. The duties are active and involve driving strain, outside work, and danger from stacked materials falling or from the fork overturning.
- ³⁵ This employee supervises 10 to 20 employees and makes assignments but is also expected to help in lifting and performing other arduous duties.
- ³⁶ This employee supervises 10 to 12 junior warehousemen and performs similar duties of these positions. The duties require lifting up to 100 pounds.
- ³⁷ The employee is required to lift up to 100 pounds, depending on the materials handled. Some climbing without the use of a ladder to obtain materials from the bins is involved.

- ²⁰ The duties involve the use of firearms, operation of a motor vehicle, agility and strength above the average, exposure to dust and climatic conditions, and prolonged standing.
- ²¹ This employee uses a power saw to cut lumber. The atmosphere is dusty and excessively noisy and involves a hazard from the moving saw.
- ²² This employee performs the same duties as junior repairman and also uses shop machines such as the lathe, drill press, and grinder.
- ²³ This employee disassembles, repairs, cleans, replaces, and tests various parts of aircraft radio instruments. This is bench work.
- ²⁴ This employee performs the same duties as a repairman and supervises or assists in supervising 18 to 40 employees.
- ²⁵ This employee performs the tasks of junior repairman in addition to other duties of more complicated nature.
- ²⁶ This employee cuts cordage, solders plugs and terminals, repairs flashlights, packs radio bags for rats, and disassembles, cleans and replaces radio parts. This is bench work.
- ²⁷ This employee disassembles, cleans, replaces, and wires various parts of radios. Dexterity is essential.
- ²⁸ This employee operates bearing, race lapping, and balancing machines. Hand kinds of metal work machines for cutting, bending, or sawing metal. The moving parts are hazardous.
- ²⁹ The duties involve checking and tracing. Prolonged locomotion may be required but the work is not hard.
- ³⁰ The duties may require working at high elevations in strained positions and exposure to poisonous paints.
- ³¹ The employee washes, buffs, sandblasts, blows, polishes, disassembles, dips, caps, paints, greases, stamps, counts, and packs spark plugs. The work is repetitive and involves finger and hand movements and heavy lifting (filled boxes of spark plugs).
- ³² The employee inspects parts of and the assembled spark plug, condemning or recommending the part or completed spark plug. The work is partly sedentary.
- ³³ The employee performs tasks of spark plug cleaner and assemblies, adjusts and tests spark plugs. The duties involve repetitive finger and hand movements.

TENTH REGION

POST OFFICE DEPARTMENT, POST OFFICE, NEW ORLEANS, LA.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																					EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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¹ This employee sorts mail into the various boxes. Prolonged walking or standing is required.² The duties require constant standing, throwing, pulling, pushing, stooping, and bending.³ The duties are arduous and require much lifting, pulling, pushing, throwing, and standing. The sacks are received and emptied into the conveyor shaft and transmitted to the dispatcher.⁴ The duties require prolonged standing, throwing, pulling, lifting, and walking.⁵ The duties are performed either while sitting or standing. The operator places cashed money orders into the machine, presses foot pedal and the machine operates automatically.⁶ During rush hours the duties are performed in standing position but after this period the employees use seat rests.

ELEVENTH REGION

NAVY DEPARTMENT, UNITED STATES NAVAL MAGAZINE, BANGOR, WASH.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																						EYES	EARS		CHEST
				AMPUTATIONS											DISABILITIES														
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind				
0-39. 83	Personnel assistant, general ¹	---	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ This employee performs personnel relations work, initiates and answers correspondence, interprets civil service and Navy Department rules and regulations and authorizes the issuance of identification badges and passes.

NAVY DEPARTMENT, NAVAL AMMUNITION DEPOT, BREMERTON, WASH.

9-64. 44	Ordnanceman, cleaning plant ¹																															
4-52. 481	Ordnanceman, coppersmith																															
9-65. 33	Ordnanceman, coppersmith helper ¹	X																														
5-25. 830	Ordnanceman, joiner (shop carpenter) ²	X																														
9-64. 44	Ordnanceman, loading plant ⁴																															
6-54. 092	Ordnanceman, powder charges ³																															
6-27. 504	Ordnanceman, sewing room ⁶																															

¹ The duties involve cleaning and washing adapters (5-inch, .38-caliber projectiles) which come from the factory and then sending them to the "D" loading plant to be charged with "D" explosives or ammoniated picrate.

² The employee overhauls powder tanks and shell cases (chiefly nonferrous metals), a reconditioning process preparing them for reuse. New cases and tanks are washed and checked before they are used.

³ The employee does general maintenance woodwork, such as repairing and fixing equipment. He operates a power machine and does odd jobs.

⁴ The duties involve the lifting of heavy boxes filled with loaded cases and of heavy individual projectiles.

⁵ The duties involve stacking powder on the machine, lacing it in tops, side-lacing, and faging and tanking of powder charges.

⁶ The employee sews heavy silk material, using a power machine. Nerve stability is essential. Considerable vibration is involved.

³ This employee has general supervision of employees in the employment division of the labor board office, handles replies to correspondence, and does some interviewing of applicants.

NAVY DEPARTMENT, PUGET SOUND NAVY YARD, BREMERTON, WASH.

³ This employee has general supervision of employees in the employment division of the labor board office, handles replies to correspondence, and does some interviewing of applicants.

ELEVENTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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- ² This position involves heavy manual labor in an environment of gas fumes in fairly high concentration.
- ³ The duties of this position include heavy manual labor, in noisy surroundings, with high concentration of gas fumes at times.
- ⁴ The boatbuilder handles all the types of lumber used in boat construction. He must be a judge of the quality of lumber and adept in the steaming and bending of lumber.
- ⁵ These employees handle metal plates from $\frac{1}{8}$ to 2 inches thick for all parts of a ship.
- ⁶ Their duties involve shaping and forming of all boilers and boiler tubes, as well as assembling boilers, smokestacks, up-takes, pressure tanks, condensers, and heavy steel plates.
- ⁷ The duties involve hard manual labor.
- ⁸ The employee stands 80 percent of the time before a machine to insert bolts in clamp for threading. The machine is automatic except for the clamping and unclamping of bolts.
- ⁹ The operator must be capable of removing and replacing threading jawheads and of adjusting the machine for thread depth cutting. The machine is well protected, the operation is simple and repetitive, and the material is light and rough in nature.
- ¹⁰ The duties involve machine operation requiring a great deal of standing.
- ¹¹ The employee uses hand or machine-operated tools.
- ¹² The employee operates machines, but the bulk of the work is done by hand.
- ¹³ This is a sedentary position. The clerk interviews applicants and completes forms for them.
- ¹⁴ This employee takes dictation, types forms and letters, does copy work, cuts stencils, answers the telephone, relieves the switchboard operator, acts as receptionist for various interviewers, relieves counter clerk and nurse, and issues and record badge numbers. She is also responsible for the proper handling and distribution of paper left for photographing.
- ¹⁵ This employee repairs carbays and wood barrels.
- ¹⁶ The operator stands before the machine which is electrically driven and trims waste from metal plates or metal bars, shearing metal angles or metal bar stock. He sits while punching holes in the metal plates or bars. He must press with his foot to trip the machine. He must be able to change punches and dies by using hand wrenches. The operation is simple but requires nimble fingers. The material is light and rough. The work is monotonous and at times extremely noisy. The surroundings are hazardous.
- ¹⁷ The duties include forging, fabricating, and shaping pipes, fittings, and other materials made from copper.
- ¹⁸ The duties involve charging the cupola and seeing that iron is melted properly.
- ¹⁹ The duties involve precision work and machine operation.
- ²⁰ The duties include under-water welding and cutting (down to 50-foot depths) as well as inspecting piers and cleaning dry-dock caisson seats.
- ²¹ The duties involve machine work with heavy canvas.
- ²² The duties include drilling, countersinking, counterboring, back facing, and tapping.
- ²³ The fumes in the working environment are a hazard in this position.
- ²⁴ The duties of this position include machine winding. This work is done at high elevations and occasionally in a dusty environment.
- ²⁵ The duties and responsibilities are comparable to those of an engineer.
- ²⁶ This employee performs arduous duties.
- ²⁷ The employee must possess agility and dexterity in order to perform the arduous duties of this position.
- ²⁸ These duties include heavy manual labor.
- ²⁹ The duties involve working in an environment subject to gas and fumes.
- ³⁰ The duties involve exposure to excessive light, heat, gas, and noise.
- ³¹ This employee uses air guns (air-power-chisels) and grinders to straighten and smooth castings. The working environment is noisy and dusty.
- ³² This employee bends heavy material on the "slab," after it has been heated in the furnace. The working environment is noisy.
- ³³ This employee works with a "team." The working environment is subjected to fumes from the acids such as sulfuric, muriatic, and salamoniac which are used in galvanizing.
- ³⁴ This employee operates radiographs and omnigraphs in connection with the cutting of structural plates and shapes.
- ³⁵ The duties consist mainly of lettering and sign painting.
- ³⁶ The duties involve heavy manual labor and include supplying plasterers, cement workers, and brick masons with necessary materials.
- ³⁷ The job consists mainly of bucking up rivets while they are being hammered by the riveter, but holder-on must also use a pneumatic hammer in double "gunning" riveting.
- ³⁸ The employee interviews and directs applicants. The duties are sedentary.
- ³⁹ The bench and machine work requires the employee to be dexterous at reading blue-prints and possess a familiarity with types of wood. The environment is noisy and dusty.
- ⁴⁰ This employee does carpenter work with heavy lumber. He makes wood flasks for molding and repairs these flasks after each use.
- ⁴¹ These employees are used as helpers when necessary. Considerable dust and smoke is present in the working environment.
- ⁴² The ladleman in this foundry prepares ladles for pouring, by lining them and repairing any damaged parts.
- ⁴³ The duties consist of hand and machine work.
- ⁴⁴ There are 2 or 3 operations performed which are repeated continually.
- ⁴⁵ This employee assembles tools and equips tool boxes for both inside and outside machinists.
- ⁴⁶ This employee performs the finer, more accurate type of work. The lathes and equipment used are small.
- ⁴⁷ This employee receives and stores all the manufactured and special material items for specific jobs in the pipe and copper shops.
- ⁴⁸ This position has the usual hazards of a naval establishment such as moving vehicles and overhauling cranes.
- ⁴⁹ This employee stands before a power-driven machine to cut light metal stock to size. The surroundings are hazardous and noisy.
- ⁵⁰ This employee operates all the woodworking equipment in the mill.
- ⁵¹ This employee shovels sand, prepares material for molders, and helps in pouring the metal. The environment is dusty and gas fumes are present.
- ⁵² This is an arduous duty position involving prolonged standing. She assists with medical examinations by taking employees' history, blood pressure, pulse and temperature, and conducting eye examinations.
- ⁵³ This employee inspects torpedo parts and machinery.
- ⁵⁴ This position involves heavy manual labor, in addition to crating, packing, and nailing up boxes. These employees lift heavy boxes and barrels.
- ⁵⁵ This employee does lettering and brush and spray painting.
- ⁵⁶ The duties of this position are sedentary. The employee interviews applicants and processes their applications and other papers.
- ⁵⁷ This is a sedentary position. The employee interviews applicants and conducts examinations for clerk-typist.
- ⁵⁸ This employee works in a dusty environment.
- ⁵⁹ This pipe fitter installs, repairs, alters, and maintains all piping systems on board naval vessels.

- ⁵⁰ This work involves 75 percent supervisory duties and 25 percent inspection work.
- ⁵¹ Prolonged standing is required.
- ⁵² This employee stands or sits before the machine and feeds a flat bar through to form various size washers. The operator must be capable of removing and replacing the punch heads and die blocks to make possible the punching of various sized washers. The work is monotonous and at times extremely noisy. This is a foot-controlled trip machine.
- ⁵³ The operator sits before the machine and places material by hand under the punch, trips the punch with his foot and after the punching operation removes the material from the machine by hand. He is required to change the punches and dies. The foot-tripping could be substituted for hand-tripping by certain changes in the machine. The surroundings are hazardous, and the work is monotonous and, at times, extremely noisy.
- ⁵⁴ This employee reviews the applications of mechanics, helpers, and laborers. He verifies the information on the applications by making inquiries to references. The position requires a background in personnel work and a working knowledge of mechanics.
- ⁵⁵ This position entails shop work as well as installation work on board ships.

- ⁵⁶ This is a sedentary position. The employee operates a hand-fed rivet-cutting machine. The surroundings are noisy.
- ⁵⁷ The "sandblaster" uses steel shot to clean scale and sand from castings that come out of the molds.
- ⁵⁸ The duties involve cable splicing at high elevations and in dangerous places.
- ⁵⁹ The duties involve work on new ship construction, as well as the alteration and repair of vessels.
- ⁶⁰ The duties involve laying down wooden decks and other wooden foundations.
- ⁶¹ The duties involve some manual labor.
- ⁶² The mason in the foundry works with brick or stone, as the specific job at hand requires. Most of his work is done with firebrick and fireclay.
- ⁶³ This employee lays deck coverings of linoleum on metal decks and rubber fabric on weather decks.
- ⁶⁴ Agility is required.
- ⁶⁵ The duties consist of piling up lumber, unloading cars, and other manual labor.

ELEVENTH REGION—Continued

NAVY DEPARTMENT, NAVAL TORPEDO STATION, KEYPORT, WASH.

237

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST					
				AMPUTATIONS										DISABILITIES													
				Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Hips or shoulders		Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
8-93.95	Automatic machine operator ¹																										X
6-77.070	Buffer and polisher ²	X	X																								X
6-77.040	Grinder ³	X	X																								X
8-52.41	Helper, general, igniters ⁴																										
9-64.44	Helper, general, torpedo inspection																										
4-52.481	Inspector, torpedo parts ⁵																										
4-75.010	Machinist ⁶																										
7-94.100	Machinist, drill press apprentice ⁷																										
8-78.10	Machinist helper ⁸	X	X																								X
7-94.100	Machinist learner ⁹	X	X																								X
6-88.654	Mill operator ¹⁰	X	X																								X
4-52.481	Ordnanceman ¹¹																										
4-74.010	Plater ¹²																										
6-82.720	Sandblaster ¹³																										
8-93.95	Scratch brusher ¹⁴																										
4-75.160	Set-up man ¹⁵	X	X																								
4-76.210	Tool maker																										

¹ The duties involve operating the automatic machines, fabricating various parts for the torpedo (screws and bushings, valves, sleeves, nuts, and gyrobearings), assembling and disassembling, as well as repairing and testing of torpedo parts. The work is light, but patience is required. Manual dexterity is essential.

² The duties involve setting up wheels with different grades of grit for grinding down metal parts; buffing and plating. This work requires standing.

³ The duties involve grinding and burring rough castings.

⁴ The duties consist of cleaning and reloading igniters, operating machines to clean igniter parts, and cleaning by hand small drill holes gummed up with powder.

⁵ The duties involve the inspection of torpedo parts and machinery and material used in the production of these parts.

⁶ The duties involve drilling, honing, reaming, and turning according to specifications; fitting and soldering keys into place; fitting and soldering screws in pistons; turning water wheels; operating an engine lathe; "turning down" bushing; turning gyro wheels; grinding cylinder; drilling, reaming, facing, and threading control valve bodies; boring, turning, and threading depth engine cylinders.

⁷ The duties involve supervised drilling, using a simple spindle drill press.

⁸ The duties involve tapping of small holes in torpedo parts and operating a universal radial drill. All grades of metal are used. The machine work is supervised.

⁹ The duties involve operating machine drills for seaming and bottom drilling. The machines are checked and repaired by supervisors in emergencies.

¹⁰ The employee cuts contour of any irregularly shaped metal device, according to specifications. A variety of delicate work is done by the milling machines which are manipulated with a minimum effort.

¹¹ The employee inspects torpedo parts and machinery.

¹² The employee plates parts in different solutions. His work is performed while standing and the work environment is damp.

¹³ The duties involve directing steel shot and compressed air from a nozzle against rough castings to smooth them. The work is chiefly performed while standing. The environment is dusty and noisy.

¹⁴ The employee cleans threads preparatory to plating. The work is chiefly sedentary.

¹⁵ The duties involve checking the machines for deficiencies while in operation in order to prevent damage. The Navy rates the employee as a tool maker (there being no rating for a set-up man).

ELEVENTH REGION—Continued

NAVY DEPARTMENT, NAVAL AIR STATION, SEATTLE, WASH.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																				EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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7-80. 220	Aircraft engine mechanic helper ¹	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

¹ This employee repairs and polishes engine parts. This is bench work.

² This employee repairs pressure and electrical aircraft instruments at a bench. He is exposed to fumes from solvent.

³ This employee is engaged in the installation and adjustment of instruments.

⁴ This is an arduous position in the final assembly of planes.

⁵ This employee sits at a bench to clean, adjust, and polish spark plugs.

⁶ This employee disassembles, replaces worn parts, and assembles carburetors in the engine overhaul shop.

⁷ This employee receives, issues, and packs aircraft parts and material.

⁸ This employee does brush and spray painting in the fabric shop.

NAVY DEPARTMENT, OFFICE OF INSPECTOR OF NAVY MATERIAL, SEATTLE, WASH.

6-82. 920	Naval inspector, brass castings ¹	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6-78. 671	Naval inspector, copper connections ²	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-78. 671	Naval inspector, furnace ³	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6-74. 230	Naval inspector, galvanizing ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6-82. 920	Naval inspector, heavy castings ⁵	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-78. 671	Naval inspector, hoisting apparatus ⁶	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-78. 671	Naval inspector, machinery ⁷	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0-60. 34	Naval inspector, oil ⁸	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6-29. 510	Naval inspector, plywood	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-78. 671	Naval inspector, propellers ⁹	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

vehicle, and delivers and returns medium sized articles weighing up to 300 pounds.
 10 This employee must be able to operate a motor vehicle. He helps load and unload pick-up and delivers and returns small articles such as tools and shovels.
 11 This employee operates mimeograph, ditto, and other duplicating machines. He is required to keep the machines in good working order, and to make repairs and adjustments.

12 This employee designs electrical installations and keeps them in working order. He prepares complete drawings of specifications, equipment and operating instructions.
 13 The duties involve the general repair of small electrical units in the accessory division, the cleaning of wire and parts; overhaul of generators, starters, pumps, and the rewiring and testing to determine proper functioning of parts.

14 This employee aids the electrician in his duties in industrial electrical work. He installs all electrical wiring and accessories in the buildings, does signal wiring, telephone, and radio work, and services electronic equipment. He is required to climb ladders and work from scaffolding and high places.

15 This employee maintains and repairs telephone communications, keeps electrical equipment in repair, makes connections, splices and solders wires and cables, erects power lines, and climbs poles and attaches fixtures to poles. He uses hand tools. The duties are arduous.

16 This employee must be able to handle all types of fire-fighting equipment, give first aid, take part in company drills, and drive a motor vehicle. He must be thoroughly familiar with fire-prevention measures and have a knowledge of hydraulics as applied to fire fighting.

17 This employee supervises the personnel and is responsible for the fire fighting and the fire-prevention equipment of the entire department.

18 This employee must have a knowledge of and be able to perform all of the duties of fire fighter and senior fire fighter. He makes inspections of all equipment, buildings, and surrounding areas for fire hazards. He draws sketches of buildings showing location of extinguishers, hose reels shut-off valve, sprinkler systems, stairways, and smoke vents. He makes reports of faulty heating system, improper storage of inflammable liquids, inspections, schedules, all fire hazards, and cooperation of personnel in removing fire hazards.

19 This employee supervises and coordinates all activities of the department during his tour of duty. He checks incoming and outgoing reports and must be familiar with all duties and activities of the department. In the absence of the chief this employee assumes the responsibility.

20 This employee must be able to perform the duties of fire fighter. He makes minor repairs, directs laying out of hose, leads in rescue work, and must know the various chemicals employed in combating fires.

21 The duties of this position are performed at a bench.

22 This employee designs heating, ventilating, and plumbing systems for buildings. Some outside work is involved.

23 The work involves much walking and climbing of stairs.

24 The duties of this position include brush and spray painting and lettering.

25 This employee does brush and spray painting.

26 This employee hangs wallpaper, does some window glazing, replaces broken windows, does sanding, puttying, filling in cracks, and removes old paint. He is required to climb ladders and work from scaffolds. He must be able to lift planks in erecting scaffolds and to assemble ladders, scaffolds and plank, and swing stages.

27 This employee grains and finishes furniture and panels in addition to lettering, stripping, and sketching. All painting is with a brush and the work is mostly in the shop.

28 This employee must be adept in the painting of signs and in spray painting.

29 This employee receives, unpacks, and stores various airplane small parts into small compartments that are named and numbered to receive same. Light duty. Works around others. Psychoneurotics can be used here.

30 This employee lays out, cuts, bends, threads, and installs other than plumbing and sanitary installations. He tightens up fittings, caulk joints, and pours lead. Most of the work is outside.

31 This employee does chrome, nickel, silver, and cadmium plating. This work subjects him to chronic acid fumes. He does heavy work with small cranes. The work involves continued standing. He wears rubberized clothing and safety shoes. The employee may develop dermatitis under these conditions.

32 This employee assembles and installs gas, water, and sanitary systems. He bends, cuts, and threads pipes, caulk and solders joints, and maintains plumbing system by installing, repairing, and replacing pipes and fixtures. He opens clogged drains and replaces washers in leaky faucets. He must be able to read blueprints and may have to work in small spaces.

33 This employee aids the plumber in all details of physical portion in his work. He is expected to check tools, obtain material when needed, and do certain minor parts of a plumber's job.

34 The duties of this position are similar to storekeeper. It is mostly a sedentary position and typing is required.

35 This employee repairs life rafts, belts, and life preservers, including emergency supplies and equipment. The job includes vulcanizing, cementing, and heavy sewing.

36 This position requires agility and heavy lifting.

37 This employee installs and maintains the steam pipes, mainly in heating systems. He cuts and threads pipes, disassembles radiators, and repairs valves. He may be exposed to considerable dust at times.

38 This employee assists the steam fitter in various parts of his work by keeping him supplied with tools and materials.

39 This employee receives, checks, stores, and issues materials. He opens boxes, unpacks, and stores contents. Agility is necessary because he must climb 5-foot step ladders.

40 This employee receives, handles, and exchanges damaged materials.

41 This work requires endurance and accuracy.

42 This employee computes daily time of employees, figures amount of deductions for bonds and retirement, and keeps record of sick and annual leave. He must be able to use the adding machine.

43 Employee receives and issues aircraft engine parts, some of which are large and heavy.
 44 This employee works in generator shop of engine accessories division. He receives and issues parts and removes and replaces parts as required. Parts are average in weight (not light or heavy).

45 This employee works in starter shop of engine accessories division. He receives and issues parts and removes and replaces parts as required. The parts are light weight.

46 This employee works in pump shop of accessories division. He receives and issues parts and removes and replaces parts as required. The parts are average in weight (not light or heavy).

47 This employee supervises the receipt, unloading, distribution, and storage of all incoming aviation supplies and special items and is responsible for the various records such as bills of lading, receipts, and requisition forms. He must be able to climb on and off trucks in inspecting items. He also supervises 15 to 20 classified laborers.

48 At this station gas welders also do gas cutting and arc welding.

49 This employee works with the joiner and in his subordinate capacity, he should understand all phases of the work.

ELEVENTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, MONTAVILLA STATION, PORTLAND 16, OREG.

Code	Title of position	X	X	ORTHOPEDIC		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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¹ This employee delivers and collects rural mail in any kind of weather.

POST OFFICE DEPARTMENT, POST OFFICE, UNITED STATES COURTHOUSE (NEW), PORTLAND 5, OREG.

4-32.100	Cabinetmaker, custodial ¹						X				X	X	X	X	X	X	X	X					X
1-05.01	Clerk, senior, custodial ²																						X
0-87.10	Custodian, assistant ³		X		X				X	X	X	X	X	X	X	X	X	X					X
2-95.20	Elevator operator						X																X
5-72.020	Engineman, chief, custodial ⁴						X																X
7-70.040	Fireman, custodial ⁵						X																X
2-61.03	Guard-laborer, custodial ⁶						X																X
2-84.10	Janitor, head, custodial ⁷						X																X
2-82.10	Laborer, custodial ⁸						X																X
2-85.10	Laborer, male, custodial ⁹						X																X
0-97.12	Station superintendent ¹⁰		X				X																X
0-97.12	Station superintendent, assistant ¹¹		X				X																X

¹ The duties include making cabinets and caring for the upkeep of the furniture.

² This employee keeps an account of all telephone calls for the post office, courthouse and customs and keeps the furniture records and the time records for all custodial employees. Agility is required.

³ This employee supervises the operation of the post office buildings in Portland, handles all personnel problems, handles correspondence, and buys furniture.

⁴ This employee supervises the laborers, enginemen, firemen, and mechanics for the entire city of Portland.

⁵ This employee is responsible for heating the building, keeping up steam, and maintaining the plumbing and elevators.

⁶ This employee works as a janitor on day work and is on guard duty at night.

⁷ This employee supervises and works with others engaged in the cleaning and maintenance of buildings, and the keeping of records.

⁸ The duties include dusting, cleaning, and polishing in the care of the buildings. The correct title of this position is charwoman.

⁹ This employee does the heavier cleaning and janitorial work.

¹⁰ This employee supervises a subsection.

¹¹ This employee is in charge of the finance section and is in charge of the station when the station superintendent is absent.

ELEVENTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE BUILDING, PORTLAND 8, OREG.

[illegible]

ELEVENTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, THIRD AND UNION STS., SEATTLE, WASH.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST				
				DISABILITIES																						
				AMPUTATIONS							DISABILITIES							Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis		
Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuberculosis	
1-01.02	Bookkeeper, chief																									
1-23.01	Carrier, city letter delivery service ¹	X	X																							
1-01.52	Cashier, assistant ²			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-82.10	Charwoman ³																									
0-87.10	Custodian ⁴			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-95.20	Elevator operator ⁵			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-01.60	Examiner of stations ⁶			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-86.10	Laborer ⁷			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-84.10	Laborer foreman ⁸			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-27.10	Mail clerk ⁹		X																							
5-83.611	Mechanic ¹⁰	X	X																							
7-99.020	Mechanic helper ¹¹	X	X																							
0-97.13	Miscellaneous section foreman ¹²		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-27.20	Money-order cashier ¹³	X	X																							
1-26.01	Postal cashier ¹⁴			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-97.12	Postmaster ¹⁵			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-97.12	Postmaster, assistant ¹⁶	X	X																							
1-27.10	Special clerk ¹⁷			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-27.10	Substitute clerk ¹⁸	X	X																							
1-42.31	Telephone operator			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-61.03	Watchman ¹⁹			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ The average carrying load is 50 pounds. The duties involve prolonged walking, approximately 5 out of 8 hours.² This employee assists the postal cashier in making routine inspections.³ This employee does arduous work. The duties consist of cleaning and scrubbing, which involves "knee" work.⁴ This employee is the general foreman of the entire building. He supervises the lower grade employees in keeping the various departments in order.⁵ This employee operates the passenger elevator and assists as a guard for the building.⁶ This employee travels by public carriers throughout the city and examines the accounts (stamps and finance) of all postal stations and the main office.⁷ This employee cleans toilets, sweeps the halls, and performs other sundry duties.⁸ This employee contacts and selects eligibles for the various positions in connection with the maintenance of the building.

- This employee segregates and sorts mail for proper distribution and final delivery. The duties involve prolonged standing.
- This employee repairs broken office equipment.
- This employee keeps equipment in order and repairs broken furniture.

13 This employee is in charge of dead parcel post, claims section, box section, general delivery, inquiry, and supply section.

¹⁴ This employee formulates policies and has the supervision of local receipts and the receipts of funds from 700 post offices. He prepares all local pay rolls and pay rolls for 400

POST OFFICE DEPARTMENT, POST OFFICE GARAGE, 225 KING ST., SEATTLE, WASH.

[illegible]

1 The duties include blacksmithing, heavy repair work, and the upkeep of the post-office delivery trucks. The surroundings are dusty.

• This employee does clerical work, keeping the records for the post office garage, including vehicles and personnel. The surroundings are dusty and dirty.

3 This employee drives the mail trucks and loads and unloads the mail.
4 This employee is responsible for the maintenance of all equipment.
5 This employee paints the various delivery trucks. The ventilation is poor.

POST OFFICE DEPARTMENT, TREASURY

[illegible]

The duties include supervision of the foremen. Prolonged walking is required.

POST OFFICE DEPARTMENT, TERMINAL POST OFFICE, SEATTLE 4, WASH.

[illegible]

1 This employee delivers heavy parcels to city residents and collects mail from boxes.
2 This employee delivers special-delivery mail to outlying districts. He is required to

drive a motor vehicle.

13 This employee supervises the personnel and oversees the work.
16 This employee assists the postmaster in his duties.

17 This employee works in the general delivery section. He is required to arrange schedules in the main office for the delivery of mail. He also handles correspondence. This employee sorts mail. Prolonged standing is required.

10 This employee sorts mail. Prolonged standing is required. This work necessitates alertness and dexterity. He may be armed.

GARAGE, 225 KING ST., SEATTLE, WASH.

^a The duties include laying out the course for trucks, directing the movement of mail, and keeping the files and records.

⁷ The duties include general mechanical work in the upkeep and repair of cars used by the Post Office Department. The surroundings are dusty and noisy and the ventilation is poor.

⁸ This employee supervises the repair, maintenance, and service of 60 vehicles in Seattle and 18 district offices, and instructs the new men in safe driving.

POST OFFICE DEPARTMENT, TERMINAL POST OFFICE, SEATTLE 1, WASH.

TWELFTH REGION

AGRICULTURE DEPARTMENT, FOREST SERVICE, FOREST GENETICS STATION, BERKELEY, CALIF.

[illegible]

¹ The employee is required to climb trees, in some instances by throwing a rope over a limb 30 to 50 feet above ground level and pulling himself up hand-over-hand. He has to crawl out on limbs of trees and affix protective bag over blossoms and later on inject

pollen into this bag using a large hypo needle. He does laboratory work using microscope, photomicrograph, and other laboratory apparatus incidental to study of pollens and the fertility thereof. The duties are arduous.

AGRICULTURE DEPARTMENT, FOREST SERVICE, RANGER STATION, DUNSMUIR, CALIF.

[illegible]

¹ This employee receives reports of fires over telephone and radio, dispatches crews, equipment and supplies to fires, and assists with pay-roll and other clerical work. This position requires a particularly even disposition. He has considerable contact with the

public and with other personnel of the Forest Service while these employees are under a severe nervous and physical strain. About $\frac{3}{4}$ of the duties are performed while sitting and $\frac{1}{4}$ while standing or walking.

AGRICULTURE DEPARTMENT, FOREST SERVICE, ELDORADO NATIONAL FOREST, CALIF.

[illegible]

¹ The duties consist of standing watch at a fire station, doing maintenance work on trails, equipment, telephone lines, and around the station, responding to fires and doing

all work necessary in suppressing fires. During the season when fires are prevalent the men are required to do not less than 2 hours per day of strenuous work in order to keep

FEDERAL COMMUNICATIONS COMMISSION, SAN LEANDRO, CALIF.

0-61.33	Radio communications operator ¹										Radio communications operator ¹										Radio communications operator ¹																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

In emergencies, it may be necessary to climb a pole or do some temporary rigging job.

FEDERAL WORKS AGENCY, PUBLIC BUILDINGS ADMINISTRATION, LOS ANGELES COURTHOUSE AND POST OFFICE BLDG., LOS ANGELES,
CALIF.

[illegible]

1 The employee repairs and maintains elevator equipment in the building. He rides on the top of cars, checks the cables and guides, cleans and lubricates them; also works on the machinery and equipment in the various elevator penthouses. A sense of balance and sure-footedness are required.

INTERIOR DEPARTMENT, GOLDEN GATE NATIONAL CEMETERY, SAN FRANCISCO, CALIF.

[illegible]

He supervises and occasionally performs the duties of skilled laborers.

'He installs and maintains sanitary fixtures and related piping. He also installs, repairs, and maintains sprinkler system for lawns and gardens.

2 This employee drives a tractor in operating a mowing machine.

4 He also acts in the capacity of foreman of skilled laborers.

JUSTICE DEPARTMENT, U. S. IMMIGRATION SERVICE, SAN FRANCISCO, CALIF.

[illegible]

The work is supervisory to some extent, however, the cooks prepare much of the food for cooking, cut the meat and have to lift big cauldrons of soup, cereal and other edibles on and off the stoves. They are subjected to sudden changes of temperature, having to go from the area near the stoves into the ice boxes and vice versa. The floors are often wet and slippery. Persons with tendency to arthritis are not suitable. The maximum lifting weight required is 150 pounds.

² The duties consist of preparing food for cooking, assisting in serving at steam tables, and cleaning up the mess hall, kitchen, and kitchen equipment after meals are served.

The work is done while standing on tile floors which are wet a considerable part of the time. For this reason the job is not suitable for persons with arthritic tendency.

3. The duties consist of supervising the activities of female detainees and at times functioning as a custodial officer or guard. Noncooperative or recalcitrant persons are removed and confined in a city or county jail. Occasionally a matron has to lift a detainee from the floor or use some force in maintaining order and discipline. Considerable time is spent walking and standing.

[illegible]

¹ While there is a certain amount of climbing about on planes, there is enough other work in this position so that a person with a usable artificial leg could be employed satisfactorily.

² In the majority of cases the work can be done sitting down. In this shop those who operate the power hammers, presses, and other small machines, together with workers who form the metal by use of hand tools, are classified as metalmiths, aviation.

³ Much of this work is done at the bench.

⁶ On some machines the employee could sit and do most of the work satisfactorily. On larger pieces of work it is necessary to stand.

NAVY DEPARTMENT, HUNTERS POINT NAVAL DRY DOCK, CALIF.

	7-72, 580	7-73, 580	7-74, 580	7-75, 580	7-76, 580	7-77, 580	7-78, 580	7-79, 580	7-80, 580	7-81, 580	7-82, 580	7-83, 580	7-84, 580	7-85, 580	7-86, 580	7-87, 580	7-88, 580	7-89, 580	7-90, 580	7-91, 580	7-92, 580	7-93, 580	7-94, 580	7-95, 580	7-96, 580	7-97, 580	7-98, 580	7-99, 580	7-100, 580	7-101, 580	7-102, 580	7-103, 580	7-104, 580	7-105, 580	7-106, 580	7-107, 580	7-108, 580	7-109, 580	7-110, 580	7-111, 580	7-112, 580	7-113, 580	7-114, 580	7-115, 580	7-116, 580	7-117, 580	7-118, 580	7-119, 580	7-120, 580	7-121, 580	7-122, 580	7-123, 580	7-124, 580	7-125, 580	7-126, 580	7-127, 580	7-128, 580	7-129, 580	7-130, 580	7-131, 580	7-132, 580	7-133, 580	7-134, 580	7-135, 580	7-136, 580	7-137, 580	7-138, 580	7-139, 580	7-140, 580	7-141, 580	7-142, 580	7-143, 580	7-144, 580	7-145, 580	7-146, 580	7-147, 580	7-148, 580	7-149, 580	7-150, 580	7-151, 580	7-152, 580	7-153, 580	7-154, 580	7-155, 580	7-156, 580	7-157, 580	7-158, 580	7-159, 580	7-160, 580	7-161, 580	7-162, 580	7-163, 580	7-164, 580	7-165, 580	7-166, 580	7-167, 580	7-168, 580	7-169, 580	7-170, 580	7-171, 580	7-172, 580	7-173, 580	7-174, 580	7-175, 580	7-176, 580	7-177, 580	7-178, 580	7-179, 580	7-180, 580	7-181, 580	7-182, 580	7-183, 580	7-184, 580	7-185, 580	7-186, 580	7-187, 580	7-188, 580	7-189, 580	7-190, 580	7-191, 580	7-192, 580	7-193, 580	7-194, 580	7-195, 580	7-196, 580	7-197, 580	7-198, 580	7-199, 580	7-200, 580	7-201, 580	7-202, 580	7-203, 580	7-204, 580	7-205, 580	7-206, 580	7-207, 580	7-208, 580	7-209, 580	7-210, 580	7-211, 580	7-212, 580	7-213, 580	7-214, 580	7-215, 580	7-216, 580	7-217, 580	7-218, 580	7-219, 580	7-220, 580	7-221, 580	7-222, 580	7-223, 580	7-224, 580	7-225, 580	7-226, 580	7-227, 580	7-228, 580	7-229, 580	7-230, 580	7-231, 580	7-232, 580	7-233, 580	7-234, 580	7-235, 580	7-236, 580	7-237, 580	7-238, 580	7-239, 580	7-240, 580	7-241, 580	7-242, 580	7-243, 580	7-244, 580	7-245, 580	7-246, 580	7-247, 580	7-248, 580	7-249, 580	7-250, 580	7-251, 580	7-252, 580	7-253, 580	7-254, 580	7-255, 580	7-256, 580	7-257, 580	7-258, 580	7-259, 580	7-260, 580	7-261, 580	7-262, 580	7-263, 580	7-264, 580	7-265, 580	7-266, 580	7-267, 580	7-268, 580	7-269, 580	7-270, 580	7-271, 580	7-272, 580	7-273, 580	7-274, 580	7-275, 580	7-276, 580	7-277, 580	7-278, 580	7-279, 580	7-280, 580	7-281, 580	7-282, 580	7-283, 580	7-284, 580	7-285, 580	7-286, 580	7-287, 580	7-288, 580	7-289, 580	7-290, 580	7-291, 580	7-292, 580	7-293, 580	7-294, 580	7-295, 580	7-296, 580	7-297, 580	7-298, 580	7-299, 580	7-300, 580	7-301, 580	7-302, 580	7-303, 580	7-304, 580	7-305, 580	7-306, 580	7-307, 580	7-308, 580	7-309, 580	7-310, 580	7-311, 580	7-312, 580	7-313, 580	7-314, 580	7-315, 580	7-316, 580	7-317, 580	7-318, 580	7-319, 580	7-320, 580	7-321, 580	7-322, 580	7-323, 580	7-324, 580	7-325, 580	7-326, 580	7-327, 580	7-328, 580	7-329, 580	7-330, 580	7-331, 580	7-332, 580	7-333, 580	7-334, 580	7-335, 580	7-336, 580	7-337, 580	7-338, 580	7-339, 580	7-340, 580	7-341, 580	7-342, 580	7-343, 580	7-344, 580	7-345, 580</
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NAVY DEPARTMENT, OFFICE OF INSPECTOR OF NAVAL MATERIAL, LOS ANGELES, CALIF.

[illegible]

¹ The duties are chiefly sedentary. The inspection is done by using micrometers and snap gages. Practically all the work could be done by use of snap-and-go or no-go gages.

TWELFTH REGION—Continued

NAVY DEPARTMENT, MARE ISLAND NAVY YARD, MARE ISLAND, CALIF.

Code	Title of position	ORTHOPEDIC																		EYES		EARS		CHEST
		AMPUTATIONS										DISABILITIES												
		Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Feet	Hips or shoulders	Blind, both eyes	Industially blind	Blind, one eye	Deaf	
5-99.112	Armature coil taper ¹ .																							
4-80.070	Boatbuilder.																							
7-38.020	Brakeman.																							
6-84.920	Calker and chipper, iron.																							
5-83.951	Calker, wood.																							
6-93.074	Can tester ² .																							
4-44.010	Compositor.																							
4-80.010	Coppersmith ³ .																							
4-82.010	Cornmaker.																							
4-91.351	Cupola tender.																							
6-86.110	Drop forger, heavy ⁴ .																							
6-86.110	Drop forger, light ⁴ .																							
6-88.742	Flange turner.																							
6-82.910	Foundry chipper.																							
4-81.030	Foundryman molder.																							
4-86.010	Frame bender.																							
4-91.571	Furnaceman.																							
6-74.110	Galvanizer.																							
6-84.410	Holder-on.																							
4-44.010	Job printer.																							
7-98.010	Job printer helper.																							
9-63.67	Laborer ⁵ .																							
8-94.21	Laborer, forming (bores) ⁶ .																							
9-63.67	Laborer, jacket stuffer ⁷ .																							
8-94.21	Laborer, press operator ⁸ .																							
8-94.21	Laborer, press operator ⁹ .																							
8-94.21	Laborer, roller ¹⁰ .																							
6-91.612	Ladleman.																							
5-27.910	Letterer and grainer.																							
5-17.210	Loftsmen.																							
4-86.125	Machine operator ¹¹ .																							
7-75.010	Maintenance machinist.																							

TWELFTH REGION—Continued

NAVY DEPARTMENT, SAN DIEGO NAVAL AIR STATION, SAN DIEGO, CALIF.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES		EARS		CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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5-77.040	Aircraft plexiglass worker ¹																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

¹ The worker cuts and applies plexiglass to the various parts of the planes. The work is divided into several operations; cutting the plexiglass by means of a portable router which follows a template clamped to a work bench in such fashion that it holds plexiglass on the bench; router is carried around the outlines of the template and accurately reproduces the outlines in the plexiglass (this operation is done entirely by sense of touch); plexiglass sheets are then cleared of their paper covering and placed in an oven and when proper temperature is reached they are removed and placed by hand onto various forms which mould them to the required shapes. This operation may be done solely by sense of touch.

² Employee cuts and applies fabric to the wings and other flat surfaces of planes. Some of the work is sedentary. The tools used are various needles and scissors. A blind person could do the work in this station, although the volume of fabric work on planes here is small, and for practical reasons it is necessary that the fabric workers be able to do all kinds of fabric work. Hearing is negligible unless worker has poor sight.

³ Employee sits at bench to clean, adjust, and assemble aircraft carburetors. He uses a screwdriver, hammer, wire cutter, and small wrenches. The weights lifted occasionally amount to 60 pounds. One intact hand and good grasping power in the secondary hand are essential.

⁴ The employee assembles hose clamp parts, inserts bolts and nuts and sizes the clamps

on a vertical step-tapered gage. The working conditions are such that the parts can be brought to the worker and the completely assembled clamps can be taken away. There is a minimum of moving around. Location of work is readily accessible, aisles are clear, floors clean, and working conditions are good.

⁵ The duties involve reconditioning spark plugs which have mica cores. Spark plugs are first removed from cartons, core is separated from the body of the plug, and the copper washer is removed. The soft rubber cap placed over the threads is applied by placing the plug in a quick-acting chuck operated by an electric drill and bringing the plug down onto the cap held in jig on the work bench. The electrodes are placed in a chuck operated by a small electric motor and are cleaned by applying emery cloth to them as they revolve in the chuck. Rubber caps are removed from the parkerized body and the plug is assembled and put into a machine which checks and corrects the gap distance between electrodes. These operations require various finger and arm movements, but 1 intact hand with good grasping power in the secondary hand would be acceptable. Operations which could be performed by blind persons are: Removing plugs, taking off washers, capping, removing caps, cleaning-electrodes, reassembling, placing in envelope and sealing, placing in cartons, and sorting washers for size. No person who is both blind and deaf should be employed.

TWELFTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST		
				DISABILITIES														Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis
				AMPUTATIONS																				
Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders				
2-95.20	Elevator operator.....																							
2-95.10	Elevator starter.....																							
5-83.641	Engineman ⁴																							
5-83.641	Engineman, assistant ⁴																							
5-72.020	Engineman, chief ⁵																							
2-84.10	Engineman helper ⁵																							
7-70.040	Fireman ⁶																							
7-70.040	Fireman helper ⁶																							
3-40.04	Gardener ⁷																							
2-61.71	Guard captain.....																							
2-61.71	Guard lieutenant ⁸																							
2-84.10	Janitor ⁹																							
2-86.10	Laborer ¹⁰																							
2-86.10	Lampist ¹¹																							
2-86.10	Marble polisher ¹²																							
5-30.210	Plumber.....																							
1-38.01	Stock clerk ¹³																							
0-87.10	Superintendent of building ¹⁴																							
1-42.32	Telephone operator.....	X																						
1-42.32	Telephone operator, chief.....																							
1-42.32	Telephone operator supervisor.....																							
2-82.30	Window washer ¹⁵	X	X																					

¹ Duties are supervisory, require ability to use a telephone and to get around the building in order to properly direct the activities of subordinates.

² Repairs, maintains, and installs new electrical equipment in the building.

³ Repairs, maintains, and ability to withstand great heights.

⁴ To repair and maintain existing equipment and install new mechanical equipment in the building. There is some climbing in and out of small spaces to be done in the boilers and climbing up and down stairs.

⁵ Takes charge of all mechanical equipment in the building, supervises the repair, maintenance, and installation of new equipment. His duties are entirely supervisory.

The size of the building requires that he be able to do a lot of walking.

⁶ Watches boilers, checks fires, water level, and steam pressure, and assists engineer in repair and maintenance of steam heating and refrigeration plant.

⁷ Trims the trees and shrubs, cultivates the soil around them, cleans and tidies up the lawns, mows the lawns, using a power mower. Must be able to work from the top of a 16-foot ladder in trimming trees and shrubs.

⁸ Duties are chiefly supervisory, but may be called upon to act as guard.

⁹ The duties are supervisory. Considerable walking about the building is necessary.

¹⁰ Cleans, scrubs, polishes, washes the walls, floors, ceilings, equipment, furniture, and does heavy moving or lifting as required.

ing and distributes as required. He does some lifting, the average weight of an article being about 50 pounds.

¹⁴ Duties are entirely supervisory.

ing. Most of the windows on the lower floors are reached by hanging on to a metal grating. Some of the others are washed without being out of the building by reaching from within. A tall person with fairly long arms should be selected.

POST OFFICE DEPARTMENT, POST OFFICE, TERMINAL ANNEX, LOS ANGELES, CALIF.

[illegible]

¹ These employees spend most of their time in the woodworking shop, repairing and maintaining old post-office equipment and furniture and building new equipment for use in handling the mail. There is practically no climbing to do and working conditions are good, with the exception of severe exposure to wood dust and dust that has accumulated on old furniture which is being repaired or remodelled.

² These employees repair, adjust, and maintain the canceling machines in good order. Minor adjustments are done on the floor of the mail room. Major repairs and replacements of parts are done in the shop adjacent to the room where the mail is sorted. The canceling machine mechanic or his helpers have to transport the machine weighing 250 pounds on a dolly to the shop. If necessary, help can be obtained to assist in lifting the machine while in transport. Since it is not necessary to lift these machines frequently, and most of the work on them is of a light character, it is considered that an applicant with organic heart disease will compensated should be acceptable.

³ There is some climbing required, in order to take care of motors on the conveyor belts and other electrical equipment. There is practically no lifting, and most of the work is done at a bench.

⁴ Operates semiautomatic slow moving passenger elevators. Working conditions are good and, except during extreme rush times, the operator may use a seat.

³ The freight elevators take trucks loaded with mail from the loading dock, haul them up inside the building where the mail on them is discharged on to conveyors. Loaded, these trucks weigh up to 4,000 pounds, and the elevator operator is required to push loads off the car onto the floor of the building. There is considerable exposure to sudden drafts and changes in temperature.

^o These employees work in the shop at lathes and other power machinery repairing, maintaining, and making equipment used in the post office. They have almost no lift-

ing or reaching up to do. They work at a bench or at a machine almost all the time.

These employees repair and maintain conveyor belts used in the post office, excepting work on electrical motors. There is considerable climbing to be done getting in and out of tight places, and the work in many cases is quite arduous. The men have to work together as a team of 2 when freeing a conveyor that may have jammed, consequently, hearing is important.

³ These employees oil the conveyor belts and certain other machinery used in handling the mail, clean dust and grease from the equipment and in general keep it clean. There is considerable climbing on high ladders and getting in and out of small cramped spaces.

⁹ Practically all of the work is done in the shop, either finishing up equipment that has been repaired or painting new equipment. There is constant exposure to toxic metallic elements in this shop, as the ventilating system in the paint spray booth is inadequate to carry away fumes.

¹⁰ In order to maintain and repair the large platform scales, it is necessary for him to climb into some very small spaces and through small openings. He also repairs the clocks used in the post office and out-lying stations.

¹¹ Receives and distributes supplies for use by the custodial force. There is no heavy lifting or climbing. Work is of a light character.

12 Repairs and maintains typewriters, adding machines, check writers, and similar office equipment.

¹³ Cleans the high windows inside and outside of the building, polishes the glass and doors. In order to reach some of the higher windows in this building, it is necessary for the window cleaner to hang a ladder by a steel hook from the top of the fire wall and climb down the ladder to reach the glass.

POST OFFICE DEPARTMENT, OAKLAND PIER TERMINAL, OAKLAND, CALIF.

¹ This clerk works only in the terminal and the physical requirements are not as high as for clerks out on railway runs.

² This employee checks the space used by incoming mail cars, arranges for space in cars for outgoing mail, and checks contents of sealed storage cars on arrival. It is often necessary to use a crowbar to open the door of sealed cars. There is a great deal of walking to do when trains are coming in and leaving as the mail cars may be parked all over the yards. The clerks have to dodge in and out between trucks, tractors, locomotives and cars being switched from one track to the other. While doing this they are exposed to cold winds, fog, rain, and sudden changes in temperature.

[illegible]

¹ Receives and sorts mail, parcel post and papers in the mail car. Bags of mail may weigh up to 75 pounds, and they sometimes have to be attached 5 feet high in the car. The clerks also have to carry these bags on their shoulders from one car to an adjacent one for storage. One of the clerks is required to go from the mail car at each stop on the way and collect the letters that may have been deposited in a letter box on the station platform. The mail bags are usually very dirty and give off a great deal of dust while being handled. This dust pervades the entire atmosphere of the car and gets into the noses, mouths, and eyes of the clerks. It is mixed with fine particles of jute from the twine used in tying letters into bundles. This combination of dirt and jute dust frequently induces attacks of hay fever and head colds, as well as sinus disease in the clerks. This is arduous work, performed under difficult and nerve-racking conditions. The long hours, lack of regular sleep, having to grab a bite of lunch between stops, noise and motion of the train, and the nervous strain introduced by the nature of the activity introduce a very serious fatigue factor into this occupation.

[illegible]

POST OFFICE DEPARTMENT, MAIN POST OFFICE, SAN FRANCISCO, CALIF.

POST OFFICE DEPARTMENT, POST OFFICE, RINCON ANNEX, SAN FRANCISCO, CALIF.

[illegible]

[illegible]

¹ The bullion weigher weighs bulk gold and silver in bags and boxes on a large balance scale. The weights handled vary up to 75 pounds. There are no fumes or dust in the room.

3 Inserts and removes dies in coining machines. The work is light, requiring good sight in 1 eye, manual dexterity and 1 hand intact. Uses simple hand tools. There are no toxic fumes or dust, but environment is noisy.

³ The die setter inserts and removes dies in coining machines. The work is light and requires good sight in 1 eye, manual dexterity, 1 intact hand, and good grasping power in the secondary hand. The tools used are wrenches, screw drivers, and hammers. There are no fumes or toxic dust in the room.

⁴ The melter, is required to watch diligently a number of electric gages in order to control the heat of the melt.

The duties are those of a combination laborer, gardener, janitor, general maintenance man, and fireman. He assists on small plumbing jobs, replaces fuses and lamps, and does boiler-room maintenance and repair work. He must be able to read a 6-inch diameter steam gage at 15 feet.

^a The junior melter charges retorts, watches furnaces (gas or electric), assembles and disassembles the molds, lifts the filled molds from the pouring table onto the cooling rack, and disassembles the molds. The tools used are a steel bar about $\frac{5}{8}$ inch thick and 12 inches long, a gold or silver hammer, and a hand die for stamping the seal of the United States Treasury on gold or silver bars. The work is arduous, and the employees must have full use of the hands, arms, shoulders, feet, and legs. The employees may sit down part of the time while performing their duties.

TREASURY DEPARTMENT, ALCOHOL TAX UNIT, SAUSALITO, CALIF.

[illegible]

¹ The employee keeps records of the operations of bonded warehouses, distilleries, and other activities in establishments making wine, distilled spirits, and alcohols. He observes the operations of the establishments by checking the weights and volumes of the raw materials brought in to the plant and also checks the volume, labeling, and to some extent the quality of the finished products. He must be able to read blueprints, perform

U. S. MARITIME COMMISSION, RICHMOND SHIPYARD, RICHMOND, CALIF.

[illegible]

¹ This employee checks miscellaneous supplies on board a ship just before it is turned over to the operators. He is on his feet practically all day. The duties require climbing ladders.

TWELFTH REGION—Continued

VETERANS' ADMINISTRATION, VETERANS' ADMINISTRATION HOSPITAL, PALO ALTO, CALIF.

Code	Title of position	Depth perception required		Color vision required		ORTHOPEDIC																				EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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¹ Vocational therapy teachers in this facility deal with patients suffering from mental disturbances. In order to maintain proper discipline in the classes and for their own

safety keen hearing and good binocular vision is needed. Considerable walking and standing is required.

VETERANS' ADMINISTRATION, VETERANS' ADMINISTRATION HOSPITAL, SAWTELLE, CALIF.

9-57.21	Extractor, laundry																													
7-57.501	Ironer, hand, laundry																													
7-57.251	Laundress																													
5-97.050	Laundry foreman																													
7-57.991	Laundryman																													
9-57.21	Laundryman helper, skilled																													
9-57.21	Mangle, hand, laundry																													
2-57.11	Mess attendant ¹																													
9-57.21	Operator, press, laundry																													
1-38.01	Stock clerk, laundry																													

¹ The mess attendants in this establishment are required to do all the cleaning and janitorial work in and around the mess hall, kitchen, storeroom, refrigerator boxes, and receiving platforms. They are expected to climb up on the steel girders supporting the skylight, wash the skylight glass, electric lights and their suspending chains, wash the walls from the floor to the ceiling, mop and wax the floor, clean the brine coils in the

refrigerator boxes, climb into and over the grease hoods on the ranges, push heavy, loaded dollies along the corridors, and lift them on and off the elevators. The mess attendant receives goods such as sacks of flour, potatoes, and sugar, crates of oranges and eggs, trucks them to various storerooms, and places them there. The employee is expected to keep an accurate record of material received and items supplied to the cooks.

² The guard stands at the ship's gangway or pier gate for an 8-hour watch. He may have to go aboard the ship once or twice each shift. He is occasionally required to board a ship in the bay from a small boat or tug.

WAR DEPARTMENT, SAN BERNARDINO AIR DEPOT, SAN BERNARDINO, CALIF.

TWELFTH REGION—Continued

WAR DEPARTMENT, FORT MASON, SAN FRANCISCO, CALIF.

[illegible]

TWELFTH REGION—Continued

WAR DEPARTMENT, THE PRESIDIO, SAN FRANCISCO, CALIF.

Code	Title of position	Depth perception required		Color vision required		ORTHOPEDIC																								EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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¹ This employee sends and receives messages in code, using automatic and manual telegraphic equipment. The operator transcribes messages received on earphones and tapé from automatic receiving machines by use of typewriter. The equipment used

consists of a head set, hand key, typewriter, tape winder, automatic tape perforating machine operated from a typewriter keyboard, and a tape scanning machine controlled by foot pressure on a treadle. All the work is done in a sitting position.

THIRTEENTH REGION

AGRICULTURE DEPARTMENT, FEDERAL CROP INSURANCE CORPORATION, DENVER, COLO.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES	EARS	CHEST									
				AMPUTATIONS							DISABILITIES																		
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers				Leg	Legs	Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye
1-23. 14	Messenger, intrabuilding		X								X	X	X	X	X	X	X	X	X	X	X				X	X	X	X	X
0-39. 45	Petrographer		X																										

¹ This employee prepares samples for analysis which involves operating a power saw, grinder, and polisher. He also analyzes the specimens, using precision optical instruments (microscope, microcameras, spectroscope).

AGRICULTURE DEPARTMENT, FOREST SERVICE, DENVER, COLO.

0-01. 20	A accountant, regional ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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THIRTEENTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC														EYES		EARS		CHEST		
				DISABILITIES																				
				AMPUTATIONS							Hips or shoulders							Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis
Arm	Arms	Hand	Hands	Fingers	Leg	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis	
0-38.01	District forest ranger, assistant ¹³	X	X																					
0-16.01	Engineer (Division of Engineering) ¹⁴	X	X																					
0-16.01	Engineer, civil (Division of Engineering, Roads and Trails) ¹⁴	X	X																					
0-16.01	Engineer, civil (construction) ¹⁴	X	X																					
0-16.01	Engineering aide ¹¹	X	X																					
0-16.01	Engineering aide ¹⁵	X	X																					
0-16.01	Engineering draftsman ¹⁶	X	X																					
0-48.26	Engineering draftsman ¹⁶	X	X																					
0-19.01	Equipment engineer, regional ¹	X	X																					
5-83.641	Equipment inspector (Division of Engineering) ¹⁷	X	X																					
7-36.510	Equipment operator ¹⁸	X	X																					
0-68.17	Fire lookout ¹⁹	X	X																					
0-68.17	Fire lookout ²⁰	X	X																					
0-68.18	Fire prevention aide ²¹	X	X																					
0-01.20	Fiscal agent, regional ¹	X	X																					
0-97.56	Foreman, construction and maintenance ²²	X	X																					
0-97.56	Foreman, construction and maintenance ²³	X	X																					
0-97.56	Foreman, construction and maintenance ²⁴	X	X																					
0-38.01	Forest supervisor ²⁵	X	X																					
0-38.01	Forester (Division of Timber Management) ¹⁴	X	X																					
0-38.01	Forester ²⁶	X	X																					
0-38.01	Forester ²⁷	X	X																					
0-38.01	Forester, assistant, regional (Division of Engineering) ¹⁴	X	X																					
0-38.01	Forester, assistant to assistant ²⁸	X	X																					
0-38.01	Forester, assistant to assistant ²⁹	X	X																					
0-38.01	Forester, farm forestry ³⁰	X	X																					
0-38.01	Forester, fire chief ³¹	X	X																					
0-38.01	Forester, fire chief ³¹	X	X																					
0-68.24	General district assistant ¹³	X	X																					
0-06.97	Information specialist ³²	X	X																					
9-32.31	Jackhammer operator ³³	X	X																					
9-54.20	Laborer ³⁴	X	X																					
2-94.10	Mechanic, general (Division of Operations) ³⁵	X	X																					
1-23.14	Messenger, general ³⁶	X	X																					
1-23.14	Messenger, reproduction plant ³⁷	X	X																					

average lifting load is 50 pounds. The duties involve prolonged standing and walking over rough terrain.

² This survey covers the position of foreman in the Arapaho, Grand Mesa, Gunnison, Harvey, Medicine Box, Montezuma, Rio Grande, Roosevelt, Routt, San Juan, and White River National Forests. He supervises up to 10 skilled and unskilled laborers in the construction, repair, and maintenance of buildings, trails, roads, fences, cattle guards, stock watering developments (troughs, springs, tanks, small dams), ponds, and telephone lines, and serves as foreman in fire-suppression work. He drives a pick-up truck over mountain roads. Prolonged walking and standing over rough terrain and construction projects is necessary. Agility is required.

³ This survey covers the foreman position located in the Gunnison, Montezuma Pike, Rio Grande, Roosevelt, and San Juan National Forests. He supervises up to 10 skilled and unskilled laborers in the construction, repair, and maintenance of buildings, trails, roads, fences, cattle guards, stock watering developments (troughs, springs, tanks, small dams), ponds, and telephone lines, and serves as foreman in fire-suppression work. He drives a pick-up truck over mountain roads. Prolonged walking and standing over rough terrain and construction projects is necessary. Agility is required.

⁴ Supervises 1 to 4 gangs of skilled and unskilled laborers in the construction, repair, and maintenance of buildings, trails, roads, fences, bridges, cattle guards, stock-watering developments, ponds, and telephone lines. He drives over highways and mountain roads. Prolonged standing and walking on various projects and over rough terrain is involved.

⁵ This employee is required to operate a motor vehicle, ride horseback, and manage pack horses on trips into the mountainous forest regions for periods as long as a week. He is required to walk over rough terrain. He works with axes, log scales, saws, and shovels, and uses explosives in the field. The average lifting load is 50 pounds. There is some office work.

⁶ This employee works in the Division of Recreation and Lands. Fifteen percent of his time is spent in inspecting mineral claims. He is required to work at high altitudes, walk over rough terrain, and climb ladders and shafts. He must be able to operate a motor vehicle.

⁷ These employees work in the Division of Operations, Range and Wildlife Management, and Timber Management (office and field). They must be able to operate a motor vehicle, ride horseback, and walk over rough mountain terrain in making field inspection trips.

⁸ This employee works with the assistant regional forester in the Division of Recreation and Lands. He must be able to operate a motor vehicle. The duties involve prolonged standing and walking over rough terrain at high altitudes, and the ability to get about on bridges and excavations.

⁹ This employee works in the Division of Information and Education (office and field). He must be able to operate a motor vehicle, ride horseback, and walk over rough mountain terrain in making field inspection trips.

¹⁰ This employee works in the Division of Timber Management. He must be able to operate a motor vehicle. The duties involve prolonged walking and standing. He is required to work part of the time at an altitude of 5,000 feet.

¹¹ This employee operates motor cars through city traffic and on highways and mountain roads. The work involves arduous duty in ordinary field work, especially while

performing emergency duties on the fire line over rough terrain. The average lifting weight is 30 pounds. He uses all the tools of fire suppression especially while training personnel.

¹² This employee works in the Division of Information and Education. His public relations duties are most important. He prepares audio-visual material and operates a motion-picture machine. He travels by car, bus, or train through the region. Prolonged walking and standing is necessary. Hard of hearing is acceptable if satisfactorily corrected with a hearing aide.

¹³ This employee operates a blackhammer in the construction and maintenance of mountain roads. Hard of hearing is acceptable if not due to nerve deafness.

¹⁴ This employee works with a crew which assists in fire suppression, building and maintaining trails and roads, constructing and maintaining telephones, and constructing and repairing fences. These duties require prolonged standing and walking over rough mountain terrain. The average lifting load is 100 pounds.

¹⁵ This employee maintains the heating plant, elevator equipment, sprinkling system, grinding equipment, and tools and equipment. He assists in storing and disbursing freight and merchandise, and in keeping the inventory current. The average maximum lifting load is 100 pounds. The duties also include driving a car through city traffic.

¹⁶ The maximum weight required to be lifted or moved is about 200 pounds. In packaging supplies, the boxes and crates are often built on the job and reinforced with metal straps requiring the use of a strapping machine. The interbuilding route is through downtown traffic.

¹⁷ The average maximum weight to be lifted is 30 pounds. The interbuilding route is through downtown traffic.

¹⁸ This employee is required to make frequent field trips by automobile, ride horseback and walk over rough terrain at high altitudes.

¹⁹ This employee works in the Division of Range and Wildlife Management (office and field). He must be able to operate a motor vehicle, ride horseback, and walk over rough mountain terrain in making field inspection trips.

²⁰ This is a sedentary position in the Division of Information and Education.

²¹ This employee works in both the office and field. The duties involve driving a car through city traffic and over mountain roads, traveling by horseback, and walking over rough mountain terrain in order to make field inspection trips.

²² This is an arduous position. The employee is required to lift articles weighing up to 100 pounds. He receives, checks, stores, issues, and packs supplies. He must be able to do crating and drive a truck.

²³ This employee drives a 1½- to 3-ton truck over highway and mountain roads, assists in loading and unloading, makes adjustments and minor repairs, and services the truck. The average lifting load is 100 pounds. The hearing must be acute in 1 ear for high-pitched sounds.

²⁴ This employee supervises employees of lower grade and is responsible for receiving, testing, storing, packing, and shipping materials and supplies. He operates cars through city traffic.

²⁵ This employee prepares samples for analysis which involves operating a power saw, grinder, and polisher. He also analyzes the specimens, using precision optical instruments (microscope, microcameras, spectroscope).

THIRTEENTH REGION—Continued

FEDERAL WORKS AGENCY, PUBLIC ROADS ADMINISTRATION, DENVER, COLO.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																		EYES		EARS	CHEST						
				AMPUTATIONS										DISABILITIES																	
				Arm	Hand	Hands	Fingers	Leg	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers	Leg	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye										
				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X					
0-01.20	Accountant ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											
0-01.20	Accountant ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-01.20	Accountant, fiscal ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-01.60	Auditor, fiscal ³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5-81.042	Automotive mechanic ⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
7-81.042	Automotive mechanic helper ⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
3-40.04	Building and grounds foreman ⁵	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
1-05.01	Clerk ⁶																														
1-37.12	Clerk-stenographer ⁷																														
1-37.34	Clerk-typist ⁸																														
1-37.34	Clerk-typist ⁹																														
0-64.30	Engineering aide ¹⁰	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-64.30	Engineering aide ¹¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-64.40	Engineering aide ¹²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-48.08	Engineering draftsman ¹³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5-81.042	Equipment superintendent, depot ¹⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
1-01.31	Fiscal accounting clerk ⁹																														
5-81.482	Foreman, shop ¹⁵	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
7-23.010	Grader equipment operator ¹⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
7-36.10	Heavy equipment operator ¹⁷	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway bridge engineer ¹⁸	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway bridge engineer, district ¹⁹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ¹⁸	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ²⁰	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ²¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ²²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ²³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ²⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ²⁵	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer ¹⁵	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
0-16.01	Highway engineer, district ²⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										

²⁴ This employee works in the Programming and Planning Section of the Division Office. He operates calculators and adding machines. The duties are sedentary.

²⁵ This employee works in the Design Section, Division Office. He inspects work under construction, obtains samples when necessary, and makes up reports. He reviews plan specifications and estimates. The duties involve prolonged standing and walking. He must be able to operate a motor vehicle.

²⁶ This employee works in both the office and field. The duties involve general inspections. The worker must have sufficient agility to move about on construction jobs and he must be able to operate a motor vehicle.

²⁷ This employee works at high altitudes over rough terrain. The work requires prolonged standing and walking. He uses hand tools in assisting in the construction and maintenance of mountain highways and roads. The average lifting load is 100 pounds.

²⁸ This employee works under supervision in the maintenance of buildings and grounds. He is required to use hand tools and operate a power grass mower and snow plow. Heavy labor is involved in the handling of tools and equipment. The average lifting load is 100 pounds.

²⁹ This employee operates the typewriter and mimeograph machines, and opens and routes incoming mail, prepares outgoing mail for mailing, and uses the telephone frequently. The average lifting load is 45 pounds. These duties necessitate prolonged standing and walking.

³⁰ This employee works approximately 50 percent of the time in the field, collecting samples. The remainder of his time is spent in the laboratory.

³¹ This employee works in a well-ventilated paint room and the usual precautions are taken for this type of work. He is assigned mechanic duties when not fully occupied. The average lifting load is 100 pounds.

³² This employee purchases materials, supplies, and equipment for the area served by the division and district offices and is required to contact the public. He does all his own office work, using typewriter and adding machine. He must be able to operate a motor vehicle.

³³ This employee is a working supervisor. The average lifting load is 100 pounds. He works on construction and maintenance of mountain highways and roads. Prolonged walking and standing is required. He lives on the job in tent camps, bunkhouses, or in nearby towns. This work requires handling explosives.

³⁴ This employee receives, stores, and dispenses automotive and construction equipment, accessories, materials, and supplies. He assists in loading and unloading trucks. He wraps packages and crates supplies for shipment. The average lifting load is 100 pounds. The duties involve prolonged standing and walking, climbing stairs, and using catwalk.

³⁵ This employee operates trucks of all types. He works at high altitudes on maintenance and construction jobs of mountain highways and roads. He lives on the job in tent camps, bunkhouses, or in nearby towns.

³⁶ This employee operates small trucks in picking up and delivering automotive parts, general supplies and equipment in the city.

THIRTEENTH REGION—Continued

284

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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1-23. 14	Messenger, intrabuilding	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</

¹ This employee makes forms, wood models, benches, utility cabinets, furniture, and fixtures. This work involves the operation of power saws, planes, sanders, and the usual hand tools. The average maximum lifting load is 100 pounds.

² This employee tests samples of soils, aggregates, and materials.

³ This employee prepares samples for analysis which involves operating a power saw, grinder, and polisher. He also analyzes the specimens using precision optical instruments (microscope, microcameras, spectroscope).

⁴ This employee makes minor repairs on compressors and freezing units and checks temperatures at laboratory outlets, operating the usual hand tools. The temperature ranges from 10° below zero to 70° in the various rooms where he works.

⁵ This employee installs wiring for the various laboratory studies and repairs electrical equipment. He operates only hand tools. He is required to climb stairs and ladders since most of his work is overhead.

⁶ This employee works in the laboratory and in the office. In the laboratory he assists model makers and engineers of higher grades in assembling, changing and dismantling hydraulic or architectural models, and operates gages of various types and records data. Twenty-five percent of this work requires climbing ladders. The average maximum lifting load is 100 pounds. In the office this employee computes data, using slide rule and calculators.

⁷ This employee's duties are less arduous than the lower grade employees whom he supervises and involve testing and handling of lighter equipment. The physical requirements are more exacting for assignment to field duty.

⁸ This employee supervises the lower grade employees, runs various tests, computes and analyzes data. He handles and examines various specimens. The duties require

climbing stairs and ladders. The maximum lifting load is 50 pounds. The physical requirements are more exacting for field duty assignment.

⁹ This employee operates crushers, screens, wheelbarrows, floor trucks (hand), concrete mixers, small cranes, and small tools. His duties involve the processing and batching of concrete aggregates and cements for investigating the properties of the concrete mix used in the construction projects. He is required to climb stairs and ladders frequently. The average maximum lifting load is 120 pounds. The ventilation system is not adequate and there is considerable dust concentration.

¹⁰ This employee prepares plans for laboratory models and equipment instruments, prepares tests, computes and analyzes data and prepares reports. He maintains liaison with other departments and supervises the lower grade employees. He makes field trips, sets up test equipment, collects, analyzes, and prepares reports on field construction. These duties involve operation of precision instruments and calculators.

¹¹ This employee makes precision instrument, precision parts, and small equipment for laboratories and construction models, involving the operation of power lathes, shapers, milling machines, and the usual hand tools.

¹² This employee supervises the work of the machinists in the lower grades.

¹³ He supervises other messengers and in their absence substitutes on both intrabuilding and interbuilding routes through downtown traffic.

¹⁴ In addition to messenger duties this employee assists in typing (30 percent of time).

¹⁵ The interbuilding route is through downtown traffic.

¹⁶ This employee constructs small architectural models and all sizes of topographic models of wood, clay, plaster, plastic and metals, which requires operating small power

THIRTEENTH REGION—Continued

OFFICE OF PRICE ADMINISTRATION, REDISTRIBUTION CENTER, DENVER, COLO.

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																				EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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1-23.14 1-23.14 2-61.03	Messenger ¹ Messenger ² Patrolman ³	---	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X

¹ The maximum lifting weight required is 75 to 100 pounds. The duties involve interbuilding trips through downtown traffic.
² The duties involve interbuilding trips through downtown traffic.
³ Sidearms are used. In addition to the duties of patrolman this employee is required to operate stoker and fold and place printed material into envelopes.

TREASURY DEPARTMENT, DENVER MINT, DENVER, COLO.

2-61.03 2-61.70	Mint guard ¹ Mint guard sergeant ¹	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
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¹ Expert use of firearms is required. In addition to guard duties some interbuilding messenger duties through traffic in own car are required.

U. S. CIVIL SERVICE COMMISSION, THIRTEENTH CIVIL SERVICE REGION, DENVER, COLO.

1-23.14	Messenger ¹	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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¹ The maximum weight to be lifted is 20 pounds. The interbuilding route is through downtown traffic. The clerical duties require prolonged standing.

VETERANS' ADMINISTRATION, REGIONAL OFFICE, DENVER, COLO.

1-23.14	Messenger	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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THIRTEENTH REGION—Continued

WAR DEPARTMENT, ARMY AIR FORCE, PUEBLO ARMY AIR BASE, PUEBLO, COLO.

Code	Title of position	Depth perception required		Color vision required		ORTHOPEDIC																						EYES	EARS	CHEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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2-61.03	Patrolman-gateman, armed																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

WAR DEPARTMENT, ARMY SERVICE FORCES, WINGATE ORDNANCE DEPOT, FORT WINGATE, N. MEX.

1-23.14	Messenger, mounted ¹		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1-23.14	Messenger, supply division ²		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-61.03	Patrolman, armed ³		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2-61.03	Patrolman trainee, armed ³		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ The position involves the operation of a motorcar.² In addition to the duties of messenger this employee assists in typing and filing.³ In addition to the messenger duties he also does routine clerical work such as filing, typing envelopes, stuffing and sealing envelopes.³ The average maximum lifting weight required is 50 pounds. He operates a motorcar both on and off the reservation. He is required to climb up steep stairs 100 feet high to the tower.

WAR DEPARTMENT, ARMY SERVICE FORCES, BRUNS GENERAL HOSPITAL, SANTA FE, N. MEX.

1-23.14	Messenger ¹		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0-98.41	Superintendent, cemetery ²		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ This position involves some typing.² This employee is required to operate a motorcar both on the reservation and off the reservation through downtown traffic and act as escort and guide to the public.

THIRTEENTH REGION—Continued

WAR DEPARTMENT, ARMY SERVICE FORCES, UTAH ARMY SERVICE FORCES DEPOT, OGDEN, UTAH

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																EYES	EARS	CHEST									
				AMPUTATIONS								DISABILITIES																			
				Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Hand	Hands	Fingers	Leg	Legs				Foot	Feet	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
1-23. 14	Messenger ¹	---	X X X	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1-23. 14	Messenger ²	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-61. 03	Patrolman ³	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-61. 03	Patrolman trainee ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-61. 03	Patrolman, unmounted ⁵	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

¹ The maximum lifting weight required is 75 pounds. On occasion he is required to operate a scooter or bicycle.² The maximum lifting weight required is 75 to 100 pounds. This employee rides a bicycle or scooter.³ The average lifting weight required is 125 to 150 pounds. This position may require the employee to be mounted as some posts are true sentry type and some sedentary.⁴ The employee is required to make personal contacts. The position also involves climbing a 200-foot ladder to tower post. The presence of toxic fumes is a hazard.⁴ The average lifting weight required is 125 to 150 pounds. The position requires the employee to be both mounted and unmounted. He is required to make personal contacts. He climbs a 200-foot ladder to the tower post.⁵ The average lifting weight required is 125 to 150 pounds. The position requires the employee to be both mounted and unmounted. The employee is required to make personal contacts. The position also involves climbing a 200-foot ladder to the tower post. The presence of toxic fumes is a hazard.

WAR DEPARTMENT, ARMY SERVICE FORCES, DESERT CHEMICAL WARFARE DEPOT, TOOELE, UTAH

1-23. 14	Messenger ¹	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-61. 03	Patrolman ²	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-61. 03	Patrolman ³	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

¹ The average lifting weight required is 25 pounds. In addition to the duties of messenger, this employee is required to open and stamp mail, type, and operate mimeograph machine.² This employee is required to operate a motorcar on the reservation.³ This position consists mainly of administrative and supervisory duties.

FOURTEENTH REGION

COMMERCE DEPARTMENT, CIVIL AERONAUTICS ADMINISTRATION, CIVIL AERONAUTICS SCHOOL, FORT WORTH, TEX.

Code	Title of position	Depth perception required		Color vision required		ORTHOPEDIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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		Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Foot	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Foot	Back	Hips or shoulders																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1-37.33	Teletype operator.....																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

¹ This employee must have the ability to enunciate his words clearly and distinctly. Prolonged standing is required.

² The work involves climbing stairs.

NAVY DEPARTMENT, NAVAL AIR TRAINING STATION, CORPUS CHRISTI, TEX.

5-80.130	Aircraft mechanic, motor ¹																							
5-83.543	Aircraft mechanic, ordnance.....																							
4-80.060	Aviation metalsmith ²	X	X																					
7-70.040	Boiler fireman ³																							
6-77.020	Buffer and polisher.....																							
5-25.830	Carpenter-joiner ⁴																							
5-73.010	Electric crancman ⁵																							
5-83.972	Instrument maker ⁶	X	X																					
4-75.010	Machinist, inside ⁷	X	X																					
7-68.451	Packer ⁸																							
7-16.210	Painter and finisher.....																							
5-83.545	Powder ordnanceman ⁹																							
5-83.447	Radio mechanic ¹⁰	X	X																					
4-97.010	Ship and shop electrician.....	X	X																					
4-35.720	Upholsterer.....	X																						

¹ This employee disassembles, repairs, and overhauls airplane engines.

² This employee must be able to climb a ladder to his cab.

³ This employee fabricates parts from steel and aluminum alloy tubing and light structural material and does light soldering, brazing, and welding.

⁴ The duties require the ability to manufacture, repair, and install all classes of mechanical, electrical and optical instruments as well as measuring devices and appliances. The employee must be able to use accurate grinding and precision lathes and delicate measuring instruments.

⁵ This employee is required to maintain and operate stationary and portable boilers.

⁶ This employee does maintenance work in the repair of furniture and buildings.

FOURTEENTH REGION—Continued

POST OFFICE DEPARTMENT, POST OFFICE, HOUSTON, TEX.

[illegible]

¹ The duties involve pulling, climbing stairs, and ladders, as well as bending, stooping, and lifting.

³ The employee fires boilers, performs repair work and mechanical maintenance of building.

² The employee is primarily a guard, but must be able to assist the fireman, make building repairs, and operate the passenger elevator. As the duties involve walking, prolonged standing, and carrying firearms, full function of hands is required.

⁴ The duties involve pulling and pushing in the loading and unloading of large mail trucks and lifting or pulling heavy mail sacks.

⁶ The employee sits on a stool and operates the lever that controls the elevator.

WAR DEPARTMENT, LOVE FIELD, DALLAS, TEX.

[illegible]

FOURTEENTH REGION—Continued

Code	Title of position	Depth perception required	Color vision required	ORTHOPEDIC																	EYES		EARS		CHEST
				AMPUTATIONS							DISABILITIES														
				Arm	Arms	Hand	Fingers	Leg	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Fingers	Leg	Legs	Foot	Back	Hips or shoulders	Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing
6-78.632	Assembler, motorized ordnance ⁶																								
4-83.771	Assembler, small-arms equipment ⁷	X	X																						
7-02.311	Assembler, truck ⁸	X	X																						
5-81.420	Automotive electrician ⁹						X					X													
5-81.910	Automotive inspector ¹⁰						X					X													
5-97.110	Automotive mechanic, leader ¹¹						X					X													
5-81.010	Automotive repairman ¹²	X	X				X					X													
5-83.411	Batteryman (repair) ¹³						X					X													
4-86.010	Blacksmith ¹⁴	X	X				X					X													
5-26.100	Cement finisher ¹⁵						X					X													
6-78.513	Crankshaft grinder ¹⁶						X					X													
7-02.713	Dynamometer man ¹⁷	X	X				X					X													
0-16.01	Engineer, operating, sewage ¹⁸			X			X					X													
7-88.410	Fork-truck driver ¹⁹	X	X				X					X													
9-32.21	Laborer, junior ²⁰						X					X													
5-94.040	Laborer foreman ²¹			X			X					X													
5-94.040	Laborer foreman, assistant ²²						X					X													
4-75.010	Machinist ²³	X	X				X					X													
9-65.36	Packer ²⁴						X					X													
7-16.210	Painter ²⁵	X	X				X					X													
5-30.210	Plumber ²⁶	X	X				X					X													
7-72.540	Pump operator ²⁸	X	X				X					X													
5-83.031	Refrigeration repairman ²⁷	X	X				X					X													
4-80.010	Sheet-metal worker ²⁸						X					X													
5-30.410	Steam fitter ²⁹						X					X													
6-30.410	Storekeeper, junior						X					X													
1-38.01	Truck driver, heavy duty ³⁰	X	X				X					X													
7-36.250	Winch truck driver ³¹	X	X				X					X													
7-73.070	Yardmaster ³²	X	X				X					X													
5-99.010																									

Cardiac
Pulmonary tuber-
culosis

and pH tests;

moving and unloading an freight and directing their proper destination on the entire 30 miles of depot railroad system.

WAR DEPARTMENT, KELLY FIELD, SAN ANTONIO, TEX.

[illegible]

FOURTEENTH REGION—Continued

Code	Title of position	ORTHOPEDIC																EYES			EARS		CHEST					
		DISABILITIES																										
		AMPUTATIONS								DISABILITIES								Blind, both eyes	Industrially blind	Blind, one eye	Deaf	Hard of hearing	Cardiac	Pulmonary tuber- culosis				
Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Hip or shoulder	Arm	Arms	Hand	Hands	Fingers	Leg	Legs	Foot	Feet	Back	Hips or shoulders								
5-78. 413	Lapping machine operator										X									X								
5-03. 572	Motor assembler										X																	
9-49. 01	Packer-shipper ⁸																											
7-40. 023	Parachute inspector ⁹																											
4-78. 411	Piston-honing operator																											
9-16. 88	Radium-dial painter ¹⁰																											
5-03. 010	Rib stitcher ¹¹																											
6-82. 720	Sandblaster																											
6-27. 527	Scamstress ¹²																											
4-60. 100	Shoe repairman ¹³																											
7-00. 925	Spark-plug cleaner																											
5-81. 410	Starter and generator repairman																											

¹ The duties include the use of honing and buffing machines which involves considerable noise and carbon dust.
² The motor parts go through a solvent, boiling water, steam pressure, and a buffing machine. The hazards are excessive heat and burns.
³ The duties involve copper, chromium and silver plating with exposure to toxic fumes. The hazards are dermatitis and acid burns.
⁴ The employee operates the automatic thermoplastic producing machines.
⁵ The gas tanks are immersed in large vats of hot water, drained and dried with compressed air. The leaks are located by internal pressure of air and water, and then soldered.
⁶ This employee works at a bench, repairing delicate flying instruments. Delicate manual dexterity is necessary.
⁷ These duties involve testing airplane instruments at a bench. Standing is required.
⁸ The duties include lifting, stooping, hammering, sawing and may include selecting

stock and transporting it by pushcart to the packing area, packing for shipment, building crates or closing them for final inspection.
⁹ The duties include the inspection, repair or replacement of all worn parts, and the proper folding and packing of the parachute for storage.
¹⁰ The dials are painted with radium paint under a lighted vent which exhausts the radium fumes.
¹¹ The duties consist in placing and sewing fabric over the airplane frames by long needles and heavy cord thread. The employee may either stand or sit at his work.
¹² Power sewing machines are used making airplane clothing from sheepskin and heavy material.
¹³ The duties involve the repair and maintenance of airplane arctic type sheepskin-lined boots and shoes. All bench work is performed standing or sitting and involves the use of leather sewing machines and other shoe-repair tools.

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Do.....	9	188	Do.....	8	150
Do.....	9	195	Do.....	8	159
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Do.	2	22	Do.	8	149
Do.	4	75	Do.	8	150
Do.	4	80	Do.	8	152
Electrician, ship repair	12	272	Do.	8	158
Electrician, shop	1	14	Do.	8	159
Do.	2	22	Do.	8	172
Do.	3	69	Do.	8	173
Do.	4	75	Do.	9	184
Do.	4	80	Do.	9	188
Do.	13	283	Do.	9	190
Electrician, studio	2	47	Do.	9	193
Electrician, utilities	8	159	Do.	9	195
Do.	8	179	Do.	9	204
Electrician, water coolers	9	190	Do.	11	243
Electrician helper	7	127	Do.	11	244
Do.	7	129	Do.	11	246
Do.	12	265	Do.	11	248
Electronic equipment repair foreman	9	219	Do.	12	260
Electronic equipment repairer	9	219	Do.	12	261
Electronic equipment repairer helper	9	219	Do.	12	262
Electronic equipment repairer, junior	9	219	Do.	12	264
Electronic equipment repairer, senior	9	219	Elevator operator, automatic	7	131
Electroplater	3	57	Do.	7	132
Do.	3	59	Elevator operator, chief	1	12
Do.	4	73	Elevator operator, freight	7	131
Do.	4	77	Do.	8	174
Do.	5	91	Do.	12	261
Do.	9	219	Elevator operator-janitor	8	150
Do.	12	254	Elevator operator, relief	8	158
Do.	14	301	Elevator repairman	14	294
Electroplater and sandblaster, senior	9	219	Elevator starter	2	34
Electroplater, engineering department	2	49	Do.	6	105
Electroplater helper	9	219	Do.	7	127
Electroplater sandblaster foreman	9	220	Do.	8	144
Electroplater, senior	9	220	Do.	9	188
Electroplating and sandblasting foreman	9	220	Do.	12	260
Elevator dispatcher	2	43	Embroidery machine operator	3	70
Elevator mechanic	3	57	Embroidress	3	59
Do.	4	80	Embroidress, hand	3	70
Do.	5	93	Employee relations officer	8	168
Do.	6	101	Engine-installation preparer, junior	9	220
Do.	6	105	Engine lathe operator	2	22
Do.	6	107	Engine tester	14	301
Do.	7	129	Engineer	7	134
Do.	8	144	Do.	8	140
Do.	9	188	Do.	8	152
Do.	9	190	Do.	8	158
Do.	9	200	Do.	8	160
Do.	12	253	Do.	13	276
Do.	12	259	Engineer, assistant	7	126
Do.	12	265	Do.	8	140
Elevator mechanic, assistant	9	188	Do.	8	174
Do.	9	190	Engineer, assistant (Diesel or gas)	9	185
Elevator mechanic, custodial	4	84	Engineer, chief (Diesel or gas)	9	185
Elevator mechanic helper	1	12	Engineer, civil	13	276
Do.	6	105	Engineer, civil (construction)	13	276
Do.	9	200	Engineer, Diesel, marine	6	115
Do.	12	259	Engineer (Diesel or gas)	9	185
Elevator mechanic, junior	9	200	Engineer-general mechanic	8	152
Elevator mechanic, principal	1	12	Engineer, hydraulic	13	283
Do.	6	107	Engineer in charge	9	185
Do.	8	143	Engineer, inspection	2	34
Do.	9	190	Engineer, junior, operating	4	80
Elevator mechanic, senior	9	200	Engineer, laboratory materials	13	283
Elevator operator	1	12	Engineer, laundry	8	182
Do.	2	34	Engineer, marine	5	91
Do.	3	52	Engineer, operating (powerhouse)	3	69
Do.	3	62	Engineer, operating, sewage	14	300
Do.	3	65	Engineer, power plant	4	87
Do.	4	80	Engineer, principal (Diesel or gas)	9	185
Do.	4	84	Engineer, quartermaster	3	53
Do.	4	85	Engineer, ranking	8	153
Do.	4	87	Do.	8	155
Do.	5	93	Do.	8	156
Do.	5	94	Engineer, ranking (gas furnace)	8	155
Do.	5	95	Engineer, safety, assistant	8	167
Do.	6	101	Engineer, sound	2	47
Do.	6	105	Engineer, stationary, operating	4	80
Do.	6	107	Engineer, utilities	8	153
			Do.	8	159

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Engineering aide	3	53	Engineman helper	12	260
Do	8	167	Engineman, hoisting and portable	1	14
Do	13	276	Do	3	57
Do	13	280	Engineman-janitor	2	34
Engineering aide, chemical	13	283	Do	5	95
Engineering aide, field	6	115	Do	6	118
Engineering aide, hydraulic	13	283	Do	8	143
Engineering aide, junior	3	67	Do	8	144
Engineering aide, materials	13	283	Do	8	145
Engineering aide, office	6	115	Do	8	150
Engineering draftsman	3	53	Do	11	248
Do	4	75	Engineman, locomotive	7	135
Do	13	276	Engineman, power roller	7	135
Do	13	280	Engineman, powerhouse	1	14
Do	14	298	Engineman, power plant	3	53
Engineering draftsman aide	4	80	Engineman, refrigeration	3	53
Engineering draftsman apprentice	4	80	Engineman, stationary	3	67
Engineering draftsman, chief	4	80	Do	6	107
Engineering equipment operator	8	164	Do	8	179
Do	8	166	Engineman, steam	5	91
Do	9	201	Do	11	232
Do	9	207	Engineman, steam electric	11	232
Do	14	299	Engraver	3	65
Engineman	3	59	Engraving machine operator	7	123
Do	4	82	Equipment engineer, regional	13	276
Do	5	93	Equipment inspector	13	276
Do	5	94	Equipment operator	13	276
Do	6	101	Equipment repairman	9	207
Do	6	105	Equipment superintendent, depot	13	280
Do	6	115	Examiner, clothing	6	110
Do	8	143	Examiner, knitted and woven articles	3	70
Do	8	144	Examiner, miscellaneous supplies	3	70
Do	8	147	Examiner of stations	11	246
Do	9	188	Examiner, station	2	31
Do	9	190	Expediter	14	296
Do	9	193	Experimental foreman and assistant	7	135
Do	11	232	Explosives operator	3	67
Do	12	260	Explosives operator, laborer	2	40
Do	12	264	Extractor, laundry	8	155
Do	12	265	Do	8	180
Engineman and assistant	2	34	Do	12	268
Engineman and helper	4	84	Extractor man	2	43
Engineman, assistant	4	84	Do	9	201
Do	4	85	Extractor man, laundry	8	174
Do	5	93	Do	8	182
Do	5	94	Extruder operator	14	301
Do	6	105			
Do	6	107			
Do	6	115			
Do	8	140	Fabric worker	7	135
Do	8	143	Fabric worker, textile and clothing	2	49
Do	8	144	Farm laborer	8	156
Do	8	147	Feeder, laundry	2	43
Do	9	189	Field examiner	8	152
Do	9	190	Do	9	198
Do	9	193	Field station attendant, senior	14	296
Do	12	260	File clerk	8	152
Do	12	262	Do	8	176
Engineman, assistant, custodial	11	244	Filing clerk	8	171
Engineman, assistant, custodial service	2	31	Filler	12	266
Engineman, assistant, custodian	8	149	Filler, box	3	70
Do	12	262	Film loader	5	95
Engineman, chief	1	12	Filter operating engineer	3	66
Do	2	34	Finance clerk	8	143
Do	4	85	Finance division clerk	8	149
Do	5	93	Finance officer	8	153
Do	6	105	Do	8	156
Do	6	107	Do	9	198
Do	8	143	Finance officer, assistant	8	156
Do	8	144	Do	9	198
Do	9	189	Financial clerk	8	142
Do	9	190	Finger truck operator	7	135
Do	9	193	Finisher	3	59
Do	12	260	Fire and police foreman	7	135
Do	12	264	Fire chief	14	296
Engineman, chief, custodial	11	243	Fire chief, assistant	14	296
Engineman, crane	7	134	Fire fighter	1	19
Engineman, custodial	11	244	Do	2	43
Engineman, custodian assistant	2	34	Do	7	135
Engineman, derrick boat	6	115	Do	8	141
Engineman, Diesel	5	91	Do	8	164
Do	8	163	Do	8	166
Engineman, diesel-electrical	12	259	Do	8	168
Engineman, diesel locomotive	2	22	Do	8	178
Engineman foreman	7	123	Do	11	240
Engineman, gasoline crane	3	67	Do	14	296
Engineman helper	5	93	Fire fighter, chief	11	240
Do	8	140	Fire fighter inspector	11	240
			Fire fighter lieutenant	11	240

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Fire fighter, senior.....	11	240	Flange turner.....	1	14
Fire guard.....	6	98	Do.....	2	22
Do.....	12	250	Do.....	3	57
Do.....	12	251	Do.....	4	73
Do.....	13	285	Do.....	5	91
Fire guard-lookout.....	13	285	Do.....	11	232
Fire guard, lookout and suppression.....	13	285	Do.....	12	256
Fire guard, lookout type.....	13	285	Flange turner helper.....	11	232
Fire lookout.....	13	276	Flare parachute assembler.....	2	40
Fire prevention aide.....	13	276	Flat-work foreman.....	9	187
Fire suppression crew foreman.....	12	250	Flat-work ironer, feeder.....	8	174
Fireman.....	2	34	Flat-work ironer, folder.....	8	174
Do.....	3	53	Flat-work ironer, shaker.....	8	175
Do.....	3	57	Flight-control repairer.....	9	220
Do.....	3	62	Flight-control repairer, senior.....	9	220
Do.....	4	85	Flight-control repairman helper.....	9	220
Do.....	7	123	Flight-control repairman, junior.....	9	220
Do.....	7	129	Folder, laundry.....	8	180
Do.....	7	131	Folder, paper boxes.....	7	135
Do.....	8	140	Footwear foreman.....	7	133
Do.....	8	143	Forger, drop.....	5	91
Do.....	8	144	Foreman.....	8	150
Do.....	8	147	Foreman, assistant, leather and canvas.....	8	170
Do.....	8	152	Foreman, assistant, loading dock.....	9	207
Do.....	8	153	Foreman, assistant, metal salvage.....	9	207
Do.....	8	156	Foreman, construction and maintenance.....	13	276
Do.....	8	158	Foreman in charge, mechanical unit.....	2	34
Do.....	8	160	Foreman, junior, renovation plant.....	9	201
Do.....	8	161	Foreman, leather and canvas.....	8	170
Do.....	8	174	Foreman, loading dock.....	9	207
Do.....	9	201	Foreman, lumber salvage.....	9	207
Do.....	12	260	Foreman, mails.....	8	147
Do.....	12	265	Foreman, motor equipment.....	8	170
Fireman, boiler.....	8	166	Foreman packer.....	6	110
Fireman, boiler plant.....	9	196	Foreman, salvage.....	9	207
Fireman, custodial.....	11	243	Foreman, shop.....	13	280
Do.....	11	244	Forest geneticist.....	12	250
Fireman, gas furnace.....	8	155	Forest guard.....	7	123
Fireman-guard.....	14	294	Do.....	12	250
Fireman-guard, laborer.....	13	283	Forest supervisor.....	13	276
Fireman-guard, laborer (unarmed).....	13	283	Forester.....	13	276
Fireman helper.....	1	12	Forester, assistant, regional.....	13	276
Do.....	5	94	Forester, assistant to assistant.....	13	276
Do.....	8	143	Forester, farm forestry.....	13	276
Do.....	8	144	Forester, fire chief.....	13	276
Do.....	12	260	Forge foreman.....	7	135
Fireman helper, stationary.....	3	67	Forge foreman and assistant.....	7	135
Fireman, high pressure.....	6	115	Forger.....	2	22
Fireman-janitor.....	6	103	Forger, drop.....	1	14
Fireman, junior.....	8	173	Do.....	3	57
Do.....	9	201	Do.....	5	91
Fireman-laborer.....	5	94	Do.....	11	232
Do.....	5	95	Forger, heavy.....	1	14
Do.....	6	105	Do.....	3	57
Do.....	7	130	Do.....	5	91
Do.....	8	140	Do.....	11	232
Do.....	8	143	Forger, light.....	1	14
Do.....	8	144	Do.....	3	57
Do.....	8	145	Do.....	5	91
Do.....	8	146	Do.....	11	232
Do.....	8	147	Forging machine operator.....	3	57
Do.....	8	148	Fork lift operator.....	1	19
Do.....	8	150	Do.....	3	62
Do.....	8	151	Do.....	8	173
Do.....	9	190	Do.....	14	299
Do.....	9	199	Fork lift operator, salvage.....	14	299
Do.....	12	267	Fork lift truck operator.....	9	201
Do.....	13	287	Fork-truck driver.....	14	300
Do.....	14	294	Forming press machine operator.....	3	67
Fireman-laborer, custodial.....	4	87	Foundry chipper.....	1	14
Do.....	8	147	Do.....	2	22
Fireman-laborer, custodial service.....	2	31	Do.....	3	57
Fireman, low pressure.....	9	207	Do.....	4	75
Fireman, power plant.....	4	87	Do.....	5	91
Fireman, power plant (oil fired).....	12	255	Do.....	11	232
Fireman, powerhouse.....	1	14	Do.....	12	256
Fireman, stationary.....	3	67	Foundry foreman and assistant.....	7	139
Do.....	8	164	Foundry grinder.....	3	57
Do.....	8	179	Foundry helper, general.....	4	73
Fireman, stationary boiler.....	5	96	Foundry melter.....	1	14
Fireman, stationary high pressure.....	11	232	Foundry molder.....	1	14
Fireman, stationary steam boiler.....	12	259	Foundryman molder.....	12	256
Fireman, utilities.....	8	159	Frame bender.....	1	15
Fireman-watchman.....	9	190	Do.....	2	22
Fiscal accountant.....	3	53	Do.....	3	57
Fiscal accounting clerk.....	13	280	Do.....	4	80
Fiscal agent, regional.....	13	276			

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Frame bender	5	91	Gas cylinder serviceman	9	220
Do	11	232	Gas cylinder serviceman helper	9	220
Do	12	256	Gas cylinder serviceman, junior	9	220
Frame disassembler, aircraft	9	220	Gas cylinder serviceman, senior	9	220
Frame disassembler helper, aircraft	9	220	Gas-mask assembler	4	77
Freight checker	9	220	Gas-mask machine operator	4	77
Freight checker, junior	9	220	Gas-mask tester	4	77
Freight elevator operator	2	34	Gas-plant operator	5	92
Do	4	82	Do	11	232
Do	4	86	Gas-station attendant	8	180
Do	7	127	Gas-tank repairman	14	301
Do	7	128	Gas welder	3	57
Do	7	135	Do	4	73
Do	12	265	Do	11	232
Do	14	294	Gasoline pump operator	9	186
Freight loader, aircraft	14	296	Gate tender	9	199
Fuel station attendant	14	296	Do	11	232
Furnace builder	3	65	Gear hobber operator	7	123
Furnace fireman, laundry	8	180	Gear shaper	7	123
Furnace repairman	8	164	General-delivery clerk	8	149
Do	8	177	Do	8	150
Do	9	207	Do	8	151
Furnaceman	1	15	Do	10	229
Do	3	57	Do	14	293
Do	3	67	General district assistant	13	276
Do	4	75	General foreman	6	121
Do	4	78	Do	7	135
Do	5	91	General foreman, assistant	7	133
Do	7	135	General helper	1	15
Do	12	256	Do	3	57
Furnaceman, foundry	2	22	Do	3	59
Do	4	73	Do	3	62
Do	11	232	Do	11	238
Furnaceman, heater	11	232	General helper, baling (mattresses)	3	57
G			General helper (clothing unit)	3	62
Gage checker	3	67	General helper, heavy loader	7	123
Gage checker helper	3	67	General helper, maintenance	3	59
Gage designer	8	161	General helper (ordnance)	3	62
Gage maker	8	162	General helper (stationery unit)	3	62
Galvanizer	4	75	General mechanic	5	94
Do	4	80	Do	8	147
Do	5	91	Do	8	167
Do	11	232	Do	9	201
Do	12	256	General mechanic, automobile	5	93
Garage foreman	7	135	General mechanic foreman	6	118
Garage foreman and assistant	7	135	Do	9	201
Garage helper	8	145	General mechanic helper	9	201
Garage man	2	34	General mechanic, junior	9	201
Do	4	82	General mechanic maintenance	5	93
Do	9	199	General mechanic, senior	9	201
Garage man-driver	2	34	Generator and starter repairman	12	270
Do	5	93	Generator disassembler	5	95
Do	6	103	Geologist, office duty	13	283
Do	6	104	Glass blower	4	77
Do	6	107	Glass blower apprentice	4	77
Do	9	189	Grader equipment operator	13	280
Do	9	190	Grader operator, senior	7	139
Garage man-driver, motor-vehicle service	2	31	Graduating and engraving machine operator	3	67
Garbage-disposal foreman	8	166	Grainer	11	232
Gardener	3	57	Grainer press operator	2	40
Do	4	80	Grease monkey, dray line	8	161
Do	4	87	Grinder	11	237
Do	8	150	Grinder cylindrical	3	67
Do	8	158	Grinder, disk	3	67
Do	8	160	Grinder, internal	3	67
Do	9	196	Grinder, interval thread, automatic	7	123
Do	12	260	Grinder operator	7	123
Do	12	263	Do	12	254
Gardener and labor foreman	8	152	Grinder, rotary surface	7	123
Gardener, chief	8	156	Grinder, rough	7	135
Gardener, landscape	8	159	Grinder, surface	3	67
Gardener, landscaping	8	153	Grinder trainee, machine shop	4	77
Gas and electric equipment inspector, senior	14	296	Grinding foreman and assistant	7	135
Gas burner and cutter	7	135	Ground school coordinator	14	296
Gas burner or cutter	3	57	Grouting inspector	9	186
Gas cutter	4	79	Guard	1	12
Gas cutter and burner	1	15	Do	2	20
Do	2	22	Do	2	34
Do	4	75	Do	2	49
Do	11	232	Do	3	52
Gas cutter and burner, ship	1	15	Do	3	53
Gas cutter and burner, shop	1	15	Do	3	62
Gas cutter or burner	4	73	Do	3	65
Do	5	92	Do	3	66
Do	12	272	Do	3	67
Gas cylinder service foreman	9	220	Do	3	70

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Guard	4	77	Handyman	6	115
Do	4	86	Do	8	161
Do	4	89	Handyman, depot supply	2	49
Do	4	90	Harness cutter	6	110
Do	5	93	Harnessmaker	6	110
Do	5	95	Head clerk	8	142
Do	5	96	Heat treater	2	49
Do	6	107	Do	3	52
Do	7	127	Do	4	73
Do	7	128	Do	4	78
Do	7	129	Do	5	92
Do	7	130	Do	7	124
Do	7	131	Do	7	135
Do	7	135	Do	8	180
Do	8	143	Do	11	232
Do	8	145	Do	12	254
Do	8	147	Heat treater, blacksmith	2	23
Do	8	160	Heat treater helper	7	135
Do	8	171	Heating control repairman	6	110
Do	8	172	Heating engineer	3	66
Do	8	173	Heating equipment repairman	14	297
Do	9	184	Heating foreman	8	177
Do	9	185	Heating operator	8	164
Do	9	187	Heating operator engineer	14	297
Do	9	189	Heavy-duty checker	6	110
Do	11	244	Heavy-duty checker, junior	6	110
Do	11	248	Heavy-duty checker, under	6	110
Do	12	263	Heavy equipment operator	13	280
Do	12	264	Hectograph operator	3	53
Do	12	265	Helium plant helper	9	185
Guard and fire marshal	8	155	Helper, general	3	57
Guard, building	13	279	Do	4	78
Guard, building, armed	13	279	Helper, general, igniters	11	237
Guard captain	5	93	Helper, general, torpedo inspection	11	237
Do	7	127	Helper trainee	4	75
Do	8	145	Helper trainee, reclaiming tools	4	89
Do	9	191	High-lift and tork operator	9	220
Do	12	260	Do	14	297
Guard captain and lieutenant	2	34	High scaler	9	186
Guard-chauffeur	4	87	Highway bridge engineer	13	280
Do	8	156	Highway bridge engineer, district	13	280
Do	9	196	Highway engineer	13	280
Guard, checker	8	145	Highway engineer, district	13	280
Guard, chief	8	173	Hod carrier	5	92
Guard, chief and fire marshal	8	155	Do	11	232
Guard, day	8	176	Holder-on	2	23
Guard, door watchman	8	145	Do	3	57
Guard-elevator conductor (laborer)	13	279	Do	5	92
Guard, escort	8	161	Do	11	232
Guard, fire prevention	8	145	Do	12	256
Guard-fireman	8	147	Hook tender	12	255
Do	8	149	Hospital attendant	4	87
Guard-fireman, unarmed	13	279	Do	7	130
Guard, inside	7	132	Do	8	140
Guard-laborer	6	107	Do	8	152
Do	8	150	Do	8	153
Guard-laborer, armed	13	279	Do	8	156
Guard-laborer, custodial	11	243	Do	8	158
Guard-laborer, police duty	8	140	Do	8	159
Guard lieutenant	7	127	Hospital attendant, supervisor	8	162
Do	8	145	Hospital seamstress	8	170
Do	9	191	Hot-press (printer), operator	2	47
Do	12	260	Housekeeper	7	130
Guard, lobby desk	2	20	Do	8	162
Guard, outside	7	132	Housekeeper, nurses home	9	196
Guard-patrolman	2	47	Hydraulic engineer	13	283
Do	7	131	Hydraulic installer and repair foreman	9	220
Guard, principal	3	57	Hydraulic landing gear repair foreman	9	220
Gun repairman	7	135	Hydraulic landing gear repairer	9	220
Gunner-ammunition proof technician	8	162	Hydraulic landing gear repairer helper	9	220
			Hydraulic landing gear repairer, junior	9	220
			Hydraulic press foreman	7	135
			Hydraulic press machine operator	7	135
			Hydroblaster, foundry	2	23
H			I		
Hammer burner	3	57	Ice-plant operator	4	87
Hammer runner	1	15	Illustrator	3	53
Do	2	23	Impregnating machine operator	9	201
Do	4	73	Information clerk	11	232
Do	4	80	Information specialist	13	276
Do	5	92	Inker	2	47
Do	11	232	Inspection foreman and assistant	7	135
Do	12	255	Inspector	4	77
Hand ironer	4	82	Do	7	135
Hand screw machine operator	7	135	Do	8	161
Handkerchief operator	8	175	Do	9	204
Do	8	182	Inspector, aircraft supplies	3	66
Handworker	9	201			
Handyman	2	43			
Do	5	92			

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Laboratorian	8	156	Laborer, assistant fireman	8	153
Do	8	158	Laborer, box supply	9	204
Laboratorian, assistant	8	156	Laborer, bull gang	8	165
Do	8	158	Laborer, cartridge-case shop	4	73
Laboratorian, assistant (bacteriology)	8	152	Laborer, classified	3	59
Laboratorian, assistant (roentgenology)	8	153	Do	5	96
Laboratorian (bacteriology)	8	152	Do	8	155
Do	8	153	Do	11	233
Laboratorian (roentgenologist)	8	154	Laborer, classified (ammunition)	8	141
Laboratorian (roentgenology)	8	152	Laborer, classified (drum room)	8	141
Laboratorian, X-ray	8	158	Laborer, classified (screen room)	8	141
Laboratory aide, assistant	3	67	Laborer, classified, sheet-metal shop	11	240
Laboratory aide, petrography	13	283	Laborer, classified (shell rejects)	8	141
Laboratory assistant	8	152	Laborer, classified, unskilled	11	249
Laboratory mechanic	4	88	Laborer (clothing unit)	3	62
Laboratory mechanic, assistant	4	88	Laborer, coal passer	8	160
Laboratory mechanic, junior	4	88	Laborer, cold storage	9	201
Laboratory mechanic, under	4	88	Laborer, custodial	1	12
Laboratory technician	7	129	Do	2	34
Do	8	140	Do	4	82
Do	8	159	Do	4	84
Do	8	170	Do	4	85
Do	9	196	Do	4	87
Do	9	201	Do	5	93
Laboratory technician, assistant	8	159	Do	6	107
Laborer	1	15	Do	8	142
Do	2	34	Do	8	149
Do	2	40	Do	11	243
Do	3	57	Do	11	244
Do	3	62	Do	11	245
Do	4	77	Do	11	248
Do	4	79	Laborer, custodial service	2	31
Do	4	87	Laborer, facer	2	34
Do	4	89	Laborer-fireman	2	34
Do	4	90	Laborer, foreman	1	12
Do	5	93	Do	2	34
Do	5	94	Do	3	53
Do	5	95	Do	4	84
Do	6	101	Do	5	93
Do	6	105	Do	5	94
Do	6	107	Do	6	101
Do	7	124	Do	6	107
Do	7	127	Do	8	140
Do	7	128	Do	8	145
Do	7	129	Do	8	147
Do	7	130	Do	8	155
Do	7	135	Do	8	173
Do	7	138	Do	8	179
Do	8	140	Do	9	189
Do	8	141	Do	9	191
Do	8	142	Do	9	207
Do	8	143	Do	9	220
Do	8	145	Do	11	246
Do	8	147	Do	11	248
Do	8	150	Do	12	253
Do	8	151	Do	14	300
Do	8	153	Laborer foreman, assistant	14	300
Do	8	156	Laborer foreman, chief	9	201
Do	8	159	Laborer foreman, head	9	201
Do	8	160	Laborer foreman, junior	8	164
Do	8	164	Do	9	201
Do	8	166	Laborer foreman, junior, utilities	9	201
Do	8	171	Laborer foreman, junior, warehouse	9	201
Do	8	172	Laborer foreman, maintenance	9	185
Do	8	173	Laborer foreman, principal	9	201
Do	8	175	Laborer foreman, senior	9	201
Do	8	176	Laborer foreman, warehouse	9	201
Do	8	178	Laborer, forming (bales)	12	256
Do	8	180	Laborer, freight traffic	3	62
Do	9	189	Laborer, general	7	127
Do	9	191	Laborer, general, foreman	9	220
Do	9	193	Laborer, hand trucker	2	34
Do	9	207	Laborer, supply room	8	141
Do	11	244	Laborer, jacket stuffer	12	256
Do	11	246	Laborer, junior	8	147
Do	12	254	Do	8	177
Do	12	256	Do	9	196
Do	12	258	Do	14	300
Do	12	260	Laborer, junior, foreman	9	220
Do	12	263	Laborer leader	9	207
Do	12	264	Laborer leadingman	3	53
Do	12	265	Laborer leadman, maintenance	9	185
Do	12	271	Laborer, loading and sacking	9	191
Do	12	272	Laborer, machine shop	4	73
Do	13	276	Laborer, mail bag packer	2	34
Do	13	281	Laborer, maintenance	8	158
Do	13	283	Do	9	185
Laborer, aisle	9	204	Laborer, male, custodial	11	243

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Laborer, operations section	9	204	Laundry checker helper	9	196
Laborer, parcel post	9	204	Laundry classifier	8	180
Laborer, pneumatic tubes	2	34	Laundry employee	7	129
Laborer, post office	2	31	Laundry extractor	4	89
Do	8	149	Laundry extractor helper	9	196
Laborer, postal	4	83	Laundry folder helper	8	155
Do	4	84	Laundry foreman	8	175
Do	4	85	Do	8	181
Do	6	101	Do	9	187
Do	6	105	Do	12	268
Laborer, press operator	12	256	Laundry helper	7	139
Laborer, pusher	9	220	Do	8	155
Laborer, pusher, utilities	9	201	Laundry helper, extractor	8	154
Laborer, quartermaster	3	53	Laundry helper, feeder and folder	8	156
Laborer, roller	12	256	Laundry helper, flat work ironer	8	154
Laborer, saw-filer machine	8	177	Laundry helper, hand ironer	9	196
Laborer, senior	9	201	Laundry helper, ironer	9	196
Do	9	220	Laundry helper, press operator	8	154
Do	14	297	Laundry helper, presser and finisher	8	157
Laborer, senior, box and crate maker	8	177	Laundry helper (shaker, presser, folder)	9	196
Laborer, senior, effects	9	201	Laundry helper, stock clerk	9	196
Laborer, senior, general	9	201	Laundry helper, tumbler	8	154
Laborer, senior, hand sewer	9	201	Laundry marker	8	181
Laborer, senior, inspection	9	201	Laundry operator, miscellaneous pre- folder	8	175
Laborer, senior, lumber	8	177	Laundry operator, miscellaneous sorter	8	175
Laborer, senior, moving	9	201	Laundry press operator	4	82
Laborer, senior, ordnance	8	179	Laundry press operator helper	9	196
Laborer, senior, packing	9	201	Laundry seamstress helper	9	196
Laborer, senior, sawyer	9	201	Laundry supervisor, assorting	8	175
Laborer, senior, stacker	9	201	Laundry supervisor, flat work	8	175
Laborer, shell assembling	8	141	Laundry supervisor, marker	8	175
Laborer, skilled	9	196	Laundry supervisor, press and shirts	8	175
Laborer, skilled (packer)	3	70	Laundry supervisor, sheets	8	175
Laborer, snapper	3	53	Laundry worker	8	160
Laborer, spark plug section	12	270	Laundryman	4	87
Laborer, special leadingman	3	53	Do	4	89
Laborer, sprayer	2	40	Do	7	130
Laborer, squad foreman (salvage)	14	299	Do	8	153
Laborer (stationery unit)	3	62	Do	8	155
Laborer, trades	9	201	Do	9	196
Laborer, transportation	9	204	Do	12	268
Laborer, unclassified	5	96	Laundryman helper	4	87
Do	12	255	Do	8	153
Laborer, unskilled	2	43	Laundryman helper, skilled	12	268
Do	9	221	Laundryman (operates washer)	8	154
Do	13	281	Lay-out and marking	2	23
Laborer, unskilled, utilities	2	49	Lay-out foreman and assistant	7	135
Laborer, utility section	8	154	Lay-out man	2	23
Laborer, verifier	2	34	Do	3	57
Laborer, warehouse	9	201	Do	12	268
Laborer-warehouse janitor	8	165	Lay-out man, photolithographic	3	67
Laborer, woodworker	3	59	Lay-out man, photolithographic helper	3	67
Ladleman	12	256	Lay-out man, plate (machine shop)	4	73
Do	2	23	Lay-out man (printer specialist)	3	62
Ladleman, foundry	4	73	Lay-out man, sheet metal	2	43
Do	11	233	Lead burner	11	233
Lampist	1	12	Lead burner, ship	2	23
Do	2	35	Lead burner, shop	2	23
Do	4	83	Leaderman	3	62
Do	4	84	Leather and canvas worker	3	69
Do	5	93	Do	8	166
Do	6	105	Do	8	170
Do	7	127	Leather and canvas worker foreman	6	118
Do	7	128	Leather and canvas worker helper	8	166
Do	7	129	Leather and canvas worker, junior	8	170
Do	8	143	Leather and canvas worker, junior and senior	3	66
Do	8	145	Leather worker	3	59
Do	9	189	Do	3	67
Do	9	191	Do	12	270
Do	12	260	Leather worker, bench	7	135
Do	12	265	Leather worker, special	7	135
Landing gear and hydraulics foreman	9	221	Leather worker (upholsterer)	11	233
Landing gear and hydraulics installa- tion helper	9	221	Lens grinder	3	67
Landing gear and hydraulics installer	9	221	Lens grinder, junior	3	67
Lap grinder, quartz crystal	3	69	Letter box mechanic	6	107
Lapping machine operator	14	302	Do	7	129
Lapping-recuperator machine operator	7	135	Do	8	143
Lathe machine operator	3	67	Do	9	191
Lathe operator	7	135	Letter box mechanic, assistant	8	143
Lathe operator, general, medium	7	124	Do	9	191
Lathe operator, light	7	124	Letter section clerk	11	233
Lathe trainee, machine shop	4	77	Letterer	4	76
Launchman	8	163	Letterer and grainer	4	80
Laundress	12	268	Do	12	256
Laundress, hand	4	89	Do	6	122
Laundry checker	8	180	Levee and embankment inspector		

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Librarian	8	153	Machinist	8	167
Do	8	154	Do	8	168
Do	8	157	Do	8	178
Do	8	158	Do	9	189
Do	8	159	Do	9	191
Librarian, chief	8	157	Do	11	233
Lift operator	2	49	Do	11	237
Do	7	138	Do	11	249
Lift operator, depot	8	177	Do	12	261
Lift truck operator	8	179	Do	12	266
Lineman	7	129	Do	14	300
Do	7	135	Machinist apprentice	4	73
Do	8	179	Do	4	78
Do	8	181	Do	5	96
Do	9	207	Machinist, armament	5	92
Lineman-electrician	6	112	Machinist, armament, senior	6	117
Link trainer servicer, senior	14	235	Machinist, artillery maintenance	7	137
Link trainer worker	12	270	Machinist, automobile repair shop	2	43
Linotype operator	3	57	Machinist (bearing borer)	2	35
Do	3	62	Machinist, bench	3	57
Loader and unloader	2	43	Do	7	135
Loader and unloader, depot supply	2	49	Machinist, cylinder	2	35
Loader, film	2	47	Machinist, drill press apprentice	11	237
Loader, laundry, laborer	2	43	Machinist, engineering department	2	49
Loan guarantee agent	9	198	Machinist foreman	8	181
Loan guarantee officer	9	198	Machinist foreman, assistant	8	164
Local mail dispatcher	10	229	Do	8	181
Lock master	9	199	Machinist foreman, maintenance	9	185
Lock master, assistant	9	199	Machinist foreman, working	8	168
Lockman	6	114	Machinist general	1	19
Do	6	115	Do	2	35
Do	7	138	Do	8	143
Locomotive crane operator	6	118	Do	8	179
Locomotive engineer	14	299	Do	11	240
Locomotive engineer, Diesel	8	177	Do	14	297
Do	8	179	Machinist, general, senior	14	297
Locomotive repairman	14	299	Machinist, helper	3	59
Loftman	1	15	Do	4	73
Do	2	23	Do	4	76
Do	3	57	Do	8	143
Do	4	76	Do	8	164
Do	4	80	Do	8	169
Do	5	92	Do	11	233
Do	11	233	Do	11	237
Do	12	256	Do	12	261
Lookout	12	251	Machinist helper, office equipment	3	63
Lookout (High Gate)	12	251	Machinist, inside	1	15
Lookout (Hunter Point)	12	251	Do	11	233
Lookout (Pinnacle Rock)	12	251	Do	14	292
Lubrication equipment repairman	9	207	Machinist, junior	8	181
Luminous dial painter (instruments)	12	258	Machinist, leadingman	3	53
			Machinist learner	11	233
			Do	11	237
			Machinist, maintenance	2	40
			Do	2	47
			Do	9	185
Macaroni press operator	2	40	Machinist, maintenance shop	14	299
Macerator operator	2	40	Machinist, marine machine shop	2	43
Machine adjuster	3	67	Machinist, mill	8	181
Machine foreman and assistant	7	135	Machinist, millwright	12	261
Machine operator	3	59	Machinist, millwright and assistant	2	35
Do	4	89	Machinist millwright helper	12	261
Do	5	96	Machinist, motor-vehicle service	9	189
Do	11	233	Machinist, ordnance (machine shop)	8	177
Do	12	256	Machinist, outside	1	15
Machine operator (drier in laundry)	8	157	Do	3	57
Machine operator, general	7	135	Machinist, production	6	115
Machine operator, junior	9	201	Do	12	272
Machine operator, renovation plant	9	201	Machinist, senior	8	171
Machine operator, senior	9	201	Do	11	233
Machine operator, special	11	233	Machinist, shop	8	181
Machine shop bench worker	14	297	Do	13	283
Machine shop foreman	8	167	Machinist shop foreman	13	283
Do	8	177	Machinist, senior (armament)	8	178
Machine shop helper, trainee	4	80	Machinist, tools and lathe	8	181
Machinist	2	35	Maid	8	153
Do	3	53	Do	8	157
Do	3	57	Do	8	159
Do	3	59	Do	8	160
Do	3	63	Maid, nurses home	9	196
Do	3	67	Mail-bags sorter	7	128
Do	3	69	Mail-box mechanic	7	128
Do	4	76	Mail carrier	1	12
Do	4	79	Mail carrier foreman	8	149
Do	4	88	Mail clerk	11	246
Do	5	96	Mail dispatcher	14	293
Do	7	135			
Do	8	162			
Do	8	164			

OCCUPATION	Region	Page	OCCUPATION	Region	Page
Mail division foreman	8	149	Mechanic	7	138
Mail, file and record clerk	3	53	Do	6	101
Do	11	240	Do	11	246
Do	13	281	Do	14	299
Mail handler	1	12	Mechanic and helper, custodial	4	83
Mail sorter	7	127	Mechanic apprentice (time fuze)	3	67
Mail-truck loader	7	128	Mechanic assembler, motor	2	35
Maintenance electrician	3	69	Mechanic, assistant (Diesel or gas)	9	185
Do	9	199	Mechanic, automotive	11	240
Maintenance foreman	4	80	Mechanic, bomb sight	12	254
Do	9	185	Mechanic, canceling machine	2	35
Maintenance foreman and assistant	7	135	Do	8	145
Maintenance machinist	4	89	Mechanic, chief	2	35
Do	12	256	Do	5	94
Maintenance man	8	170	Do	5	95
Do	9	207	Do	9	189
Maintenance man, chief	8	175	Do	9	191
Maintenance man, utilities	8	173	Mechanic, chief (automobile)	5	93
Maintenance mechanic, sprinkler system	14	299	Mechanic, chief foreman	7	139
Maintenance mechanic	3	69	Mechanic, chief, motor vehicle service	2	31
Do	4	88	Mechanic, chief, motor vehicles	11	247
Do	9	207	Mechanic, clock	2	35
Do	14	297	Mechanic, conveyor	8	145
Maintenance mechanic, general	9	189	Mechanic (Diesel or gas)	9	185
Do	9	193	Mechanic-driver	5	94
Maintenance mechanic, senior	14	297	Do	5	95
Maintenance mechanic, waterworks	9	199	Mechanic-driver, motor vehicle	4	83
Maintenance shop foreman	12	269	Mechanic, electric door	2	35
Manager	8	153	Mechanic, elevator	2	35
Manager, property	2	35	Mechanic, engineering equipment	8	164
Mangle, hand	11	233	Mechanic foreman	6	105
Mangle, hand, laundry	12	268	Do	8	145
Mangle handler	4	82	Do	9	191
Manufacturing and repairing foreman	14	297	Mechanic foreman, engineering equipment	9	207
Marble cleaner	7	127	Mechanic foreman, renovation plant	9	201
Marble polisher	2	35	Mechanic-garage foreman	8	158
Do	4	84	Mechanic, general	2	35
Do	7	127	Do	4	83
Do	8	143	Do	4	84
Do	8	145	Do	4	86
Do	8	147	Do	5	95
Do	12	260	Do	6	101
Marine engineer	3	71	Do	6	121
Marine engineer, water transportation	2	43	Do	8	157
Marine engineman	5	92	Do	8	166
Do	12	272	Do	8	173
Marine fireman	5	92	Do	9	189
Do	9	92	Do	9	191
Marine fireman, coal	3	71	Do	9	196
Marine fireman, oil	3	71	Do	9	199
Do	9	204	Do	11	240
Marker	4	82	Do	11	248
Do	8	182	Do	12	263
Marker and cutter	3	59	Do	12	266
Marker, laundry	2	29	Do	13	276
Do	2	43	Do	14	297
Mason	8	141	Do	14	299
Do	8	164	Mechanic, general, automotive equipment	8	164
Do	9	201	Mechanic, general, cement and plaster	8	154
Mason and cement finisher	9	207	Mechanic, general, junior	8	164
Mason, brick or stone	5	92	Mechanic, general, motor vehicle service	2	31
Mason, building trades	1	15	Mechanic, general, senior	14	297
Mason, construction and maintenance	3	53	Mechanic, general, senior, automotive equipment	8	164
Mason, utilities	2	50	Mechanic, general, utilities	8	159
Master mechanic	4	73	Mechanic, general, welding	8	154
Do	4	76	Mechanic, heating	8	177
Mate, dredge propelling	3	71	Mechanic helper	2	35
Material checker, explosives	9	210	Do	8	159
Material keeper	7	135	Do	8	164
Material salvage supervisor	3	53	Do	8	173
Material supervisor inspector	12	254	Do	8	177
Materials engineer	3	53	Do	8	181
Do	13	281	Do	11	246
Matron	2	35	Mechanic helper, garage	8	155
Do	6	105	Mechanic helper (gas pump operator)	8	165
Do	9	189	Mechanic helper, general	5	96
Do	9	191	Do	6	114
Do	12	265	Do	8	145
Meat cutter	4	87	Do	9	193
Do	7	126	Do	9	196
Do	8	153	Do	8	171
Do	8	154	Mechanic helper (greaser)	9	207
Do	8	157	Mechanic helper, machine shop	9	207
Do	8	160	Mechanic helper, motor testing	9	207
Do	9	196	Mechanic helper, renovation plant	9	201
Meat inspector	12	252			
Mechanic	3	63			

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Mechanic, ignition	2	35	Messenger	6	121
Mechanic in charge	2	35	Do	6	122
Do	9	191	Do	7	130
Mechanic in charge, garage	8	155	Do	7	131
Mechanic in charge of shop	11	233	Do	7	132
Mechanic inspector	8	176	Do	7	138
Mechanic, instrument maker	12	269	Do	8	153
Mechanic, journeyman	8	173	Do	8	155
Mechanic, junior	8	173	Do	8	157
Mechanic, junior, general	9	199	Do	8	159
Mechanic, junior, renovation plant	9	201	Do	8	182
Mechanic, laundry	8	181	Do	9	184
Mechanic learner	4	82	Do	9	187
Mechanic learner, burning	3	52	Do	9	196
Mechanic learner, laying up fabric	3	52	Do	9	198
Mechanic learner, parachute cushions	3	52	Do	9	199
Mechanic learner, parachute frames	3	52	Do	9	207
Mechanic learner, parachute packs	3	52	Do	9	221
Mechanic, letter box	2	35	Do	11	233
Mechanic, maintenance	11	249	Do	13	279
Mechanic, office equipment	3	63	Do	13	286
Mechanic, principal (Diesel or gas)	9	185	Do	13	288
Mechanic, principal, elevator	2	35	Do	13	289
Mechanic, printing press	3	63	Do	13	290
Mechanic, renovation plant	9	201	Do	13	291
Mechanic, scale	2	35	Do	14	297
Do	8	145	Messenger, chief	13	289
Mechanic, senior	7	139	Messenger, general	13	276
Do	8	181	Do	13	287
Mechanic, special	2	35	Messenger, head	13	283
Do	4	86	Do	13	285
Mechanic turbo supercharger	12	271	Messenger, interbuilding	13	283
Mechanic, typewriter	2	35	Do	13	287
Mechanic, ventilating	2	35	Messenger, interbuilding unmounted	13	279
Mechanical construction inspector	3	57	Do	13	287
Mechanical draftsman	4	89	Messenger, intrabuilding	13	275
Mechanical engineer	8	179	Do	13	279
Do	11	240	Do	13	283
Mechanical engineer, associate	11	240	Do	13	284
Mechanical machinist helper	6	114	Messenger, junior	8	171
Mechanical time-fuze operator	2	40	Messenger, mail	4	87
Do	3	67	Messenger, medical unit	13	287
Mechanical trades apprentice	4	76	Messenger, motor vehicle	4	83
Mechanical trades boss	7	135	Messenger, mounted	13	279
Mechanical unit foreman	2	35	Do	13	285
Medalist	3	65	Do	13	288
Melter	7	135	Do	13	289
Melter, brass, nonferrous mixture	11	233	Messenger, mounted and unmounted	13	291
Melter, electric	2	23	Messenger, personnel unit	13	287
Do	3	71	Messenger, plant	13	287
Do	5	92	Messenger, reproduction plant	13	276
Melter, electric steel furnace	11	233	Messenger, special delivery	4	83
Melter, fuel	2	23	Do	8	142
Melter, gas	2	23	Do	8	146
Do	3	71	Do	8	149
Melter, junior	12	267	Messenger, supply division	13	288
Melter, open hearth	5	92	Messenger, supply office	11	240
Do	11	233	Messenger, unmounted	13	285
Melter, senior	12	267	Do	13	289
Mess attendant	4	87	Metal band cutting operator	11	233
Do	7	126	Metal cartridge case machine operator	3	67
Do	7	129	Metal cutter	2	23
Do	7	130	Metal finisher	3	69
Do	7	131	Metal roller and helper	4	73
Do	7	133	Metal sorter	3	69
Do	8	153	Metal sprayer	12	254
Do	8	154	Metal strapping box operator	7	135
Do	8	155	Metalsmith	3	52
Do	8	157	Mill operator	11	237
Do	8	158	Millhand molder	6	111
Do	8	159	Milling machine operator	2	23
Do	8	160	Do	3	67
Do	8	166	Do	7	135
Do	8	173	Milling machine operator, automatic	7	124
Do	8	181	Milling machine operator, keller	7	124
Do	9	196	Milling machine operator, large	7	124
Do	12	268	Milling machine operator, revolving	7	135
Mess attendant, chief	7	126	Milling machine operator, small	7	124
Mess attendant, hospital	8	169	Milling machine operator, threader	7	124
Messenger	1	12	Millman	1	15
Do	2	31	Do	3	57
Do	3	59	Do	4	75
Do	3	67	Do	5	92
Do	6	99	Do	11	233
Do	6	111	Millman (mechanical unit)	3	59
Do	6	113	Millwright	2	40
Do	6	117	Do	3	67
			Do	6	118

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Millwright	7	135	Naval inspector, plywood	11	238
Mimeograph operator	2	47	Naval inspector, pontoons	6	99
Do	3	53	Naval inspector, propellers	11	238
Do	8	179	Naval inspector, pulleys	11	239
Minor engineering aide	8	161	Naval inspector, pyrotechnics	6	99
Mint guard	12	267	Naval inspector, quartz crystals	2	27
Do	13	286	Naval inspector, radio	2	27
Mint guard sergeant	13	286	Naval inspector, rough castings	11	239
Miscellaneous dry cleaning operator	8	175	Naval inspector, rubber	2	27
Miscellaneous duplicating equipment operator	14	299	Naval inspector, safety belts	2	27
Miscellaneous section foreman	11	244	Naval inspector, screw machines	12	255
Do	11	246	Naval inspector, shafts	11	239
Miscellaneous supplies inspector	6	111	Naval inspector, sound equipment	12	255
Mixer operator	2	40	Naval inspector, steel	6	99
Mobile crane operator	3	69	Naval inspector, steel castings	11	239
Mobile machine repairman	3	66	Naval inspector, steering gears	11	239
Do	6	118	Naval inspector, stoves	11	239
Model maker	4	75	Naval inspector, switchboard	2	27
Do	13	284	Do	11	239
Molder	4	76	Naval inspector, tanks	11	239
Do	5	92	Naval inspector, targets	6	99
Do	7	135	Naval inspector, teletype apparatus	2	27
Molder and apprentice	4	73	Naval inspector, valves	6	99
Molder apprentice	5	96	Do	11	239
Molder, core	3	57	Naval inspector, welding	2	27
Molder, foundry	2	23	Navigation instrument maker helper	4	80
Molder helper	4	73	Negative strippers	3	63
Do	7	135	Nurse	7	129
Do	11	233	Do	8	157
Molder, plastic plexiglass	12	270	Do	11	233
Molding machine operator	3	57	Nurses' aide	8	179
Money-order cashier	11	244	Nurse, assistant chief	8	154
Do	11	246	Nurse, chief	8	154
Money-order cashier assistant	11	244	Nurse, first aid	8	168
Money-order clerk	8	145	Nurse, head	8	154
Do	8	146	Nurse, hospital	8	167
Do	8	147	Nurse, staff	8	154
Do	8	149			
Do	8	150	O		
Do	8	151	Observer in meteorology	12	273
Do	10	229	Occupational therapist	12	268
Do	14	293	Occupational therapy aide	8	154
Monotype operator and repairman	9	187	Do	12	268
Motion-picture operator	2	47	Occupational therapy aide, chief	8	157
Motor assembler	14	302	Occupational therapy aide, junior	8	154
Motorboat operator	8	163	Do	8	157
Motor grader operator	12	259	Occupational therapy aide, staff	8	157
Motor push boat operator	9	204	Occupational therapy attendant	8	154
Motor repair shop, assistant foreman	9	207	Occupational therapy chief	8	154
Motor repair shop foreman	9	207	Office appliances operator	3	53
Motor-vehicle service superintendent	9	191	Office machines repairman	3	69
Moveman	3	67	Officer in charge, assistant	8	175
Do	7	136	Offset duplicating devices operator	3	54
Multilith and mimeograph operator	8	176	Oiler	1	17
Multilith operator	3	53	Do	2	35
Do	13	277	Do	3	67
Do	14	299	Do	4	80
Munitions handler	2	40	Do	7	124
Do	3	67	Do	7	127
Do	4	89	Do	7	129
Do	8	179	Do	7	136
Munitions handler foreman	8	179	Do	8	145
Munitions worker	12	269	Do	9	191
			Oiler and wiper	12	261
N			Oiler, Diesel engines	3	71
Nailer	9	207	Oiler helper, trainee	4	89
Nailing machine operator (box shop)	14	299	Oiler, marine	12	272
Naval aviation stores inspector	12	254	Oiler, marine water transportation	2	43
Naval inspector, ammunition	6	99	Oiler, patrol	9	191
Naval inspector, brass castings	11	238	Oiler, powerhouse	1	15
Naval inspector, cables	2	27	Open-hearth melter	4	73
Naval inspector, castings	2	27	Operating engineer	8	173
Naval inspector, copper connections	11	238	Do	8	175
Naval inspector, elevator assembly	6	99	Operating engineer, chief	8	174
Naval inspector, furnace	11	238	Do	9	201
Naval inspector, galvanizing	11	238	Operating engineer, head	12	253
Naval inspector, gun mounts	2	27	Operating engineer, junior	9	201
Naval inspector, guns	2	27	Operating engineer, power and heat	9	201
Naval inspector, heavy castings	11	238	Operating engineer, senior	9	201
Naval inspector, hoisting apparatus	11	238	Operating engineer, senior (gas and oil)	8	170
Naval inspector, machinery	6	99	Operating engineer, water	8	164
Do	11	238	Do	8	177
Naval inspector, motors	6	99	Operating engineer, water and sewage	8	166
Naval inspector, oil	11	238	Operations foreman, renovation plant	9	201
Naval inspector, ordnance	2	27	Operations foreman, senior	9	201
Naval inspector, plastic	6	99	Operator, forms V tapes	8	175
			Operator's helper	3	71
			Operator's helper (trimmer)	3	71

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Operator, junior	8	170	Packer and crater, senior	9	221
Operator pilot, disk assembly	8	175	Do.	14	297
Operator, press, laundry	12	268	Packer, chief	9	204
Operator, pump	8	179	Packer, clothing	14	299
Operator, senior	8	170	Packer (clothing unit)	3	63
Optical glass grinder and polisher	3	68	Packer foreman	3	54
Do.	4	73	Do.	8	173
Do.	11	233	Do.	9	201
Do.	12	269	Packer foreman, junior	9	201
Optical glass plate and gage maker	4	73	Do.	9	204
Do.	11	233	Packer foreman, ordnance	9	208
Optical instrument assembler	4	73	Packer, junior	7	133
Do.	5	96	Packer, junior (overseas equipment)	8	173
Do.	11	233	Packer leadingman	3	54
Do.	12	269	Packer, mail order	7	136
Optical instrument finisher	5	96	Packer, miscellaneous supplies	9	201
Do.	12	269	Packer quartermaster	3	54
Optical instrument maker	11	233	Packer, screws	5	95
Do.	12	269	Packer, selector	9	204
Optical parts inspector	3	68	Packer, senior	9	201
Do.	4	73	Do.	9	204
Do.	5	92	Do.	9	221
Do.	5	96	Packer, senior, aisle supervisor	9	204
Do.	12	269	Packer, senior, selector	9	204
Optical polish and wax mixer	4	73	Packer-shipper	14	302
Optical worker	2	23	Packer, spark plug section	12	270
Oral hygienist	8	157	Packer (stationery unit)	3	63
Ordnance inspector	4	73	Packer, supply shop	4	80
Ordnance maintenance foreman	7	136	Paint foreman	7	136
Ordnance worker	4	73	Paint foreman and assistant	7	136
Do.	4	77	Paint sprayman	11	233
Do.	4	78	Painter	2	35
Do.	4	89	Do.	2	47
Ordnance worker, machine shop	4	73	Do.	3	54
Ordnance worker, optical shop	4	73	Do.	3	57
Ordnanceman	1	17	Do.	4	76
Do.	2	23	Do.	4	78
Do.	3	57	Do.	4	80
Do.	3	63	Do.	4	88
Do.	4	78	Do.	4	89
Do.	5	92	Do.	5	96
Do.	7	124	Do.	6	105
Do.	11	233	Do.	6	107
Do.	11	237	Do.	7	136
Do.	12	257	Do.	7	139
Do.	12	259	Do.	8	141
Ordnanceman, cleaning plant	11	230	Do.	8	145
Ordnanceman, coppersmith	11	230	Do.	8	153
Ordnanceman, coppersmith helper	11	230	Do.	8	154
Ordnanceman, gyro	7	124	Do.	8	155
Ordnanceman, joiner (shop carpenter)	11	230	Do.	8	157
Ordnanceman, loading plant	11	230	Do.	8	158
Ordnanceman, powder charges	11	230	Do.	8	166
Ordnanceman, sewing room	11	230	Do.	8	173
Ordnanceman, supply shop	4	80	Do.	8	178
Orientator, quartz crystal	3	69	Do.	8	179
Outgoing mail foreman	11	248	Do.	8	181
Outside machinist	12	257	Do.	8	182
Outward section foreman	11	244	Do.	9	191
Overseer plant electroplating	6	114	Do.	9	196
			Do.	9	201
			Do.	9	208
			Do.	9	221
			Do.	11	233
			Do.	11	240
			Do.	12	261
			Do.	12	265
			Do.	12	272
			Do.	14	297
			Do.	14	299
			Do.	14	300
			Painter and finisher	14	292
			Painter, automobile	12	266
			Do.	12	269
			Painter, automotive mechanic	13	281
			Painter, building trades	1	15
			Painter, custodial	4	83
			Painter, dope shop	11	238
			Painter, finish and insignia	4	79
			Painter, finish and insignia (aircraft)	3	52
			Painter foreman	8	166
			Do.	8	181
			Do.	8	182
			Do.	9	208
			Do.	9	221
			Do.	14	297
			Do.	14	299
Packer, ammunition	3	63			
Packer and crater foreman	9	221			
Packer and crater, junior	14	297			

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Painter, general	11	240	Passenger elevator operator	7	128
Painter helper	4	88	Do	7	129
Do	8	153	Do	14	294
Do	8	154	Patients' funds clerk	8	157
Do	8	157	Patrol officer, cashier's office	2	21
Do	8	171	Patrol officer, customs unit detail	2	43
Do	8	172	Patrol officer, LaGuardia airport	4	43
Do	8	182	Patrol officer, law enforcement division	2	44
Do	9	196	Patrol officer, pistol range	2	44
Do	9	202	Patrol officer, port patrol division	2	44
Do	9	221	Patrol officer, seizure room detail	2	44
Do	12	261	Patrol officer, special	2	44
Painter, high	7	124	Patrol supervisor, assistant chief	13	289
Painter, house	3	59	Patrol supervisor, chief	13	289
Painter, inside and outside	8	164	Patrolman	1	19
Painter, junior	9	202	Do	2	44
Do	9	221	Do	6	99
Painter leadingman	3	54	Do	6	111
Painter, letterer and grainer	3	54	Do	6	113
Do	11	241	Do	6	117
Painter, low	7	124	Do	6	121
Painter, motor vehicle	4	83	Do	6	122
Painter, motor vehicle service	9	189	Do	7	132
Do	9	191	Do	8	141
Painter, quartermaster	11	241	Do	8	166
Painter, senior	8	171	Do	8	173
Do	8	182	Do	8	179
Do	9	202	Do	9	187
Do	9	221	Do	9	199
Painter, ship	1	15	Do	9	208
Do	2	23	Do	11	231
Painter, shop	2	23	Do	12	271
Do	3	59	Do	13	285
Do	13	284	Do	13	286
Painter, sign	8	164	Do	13	289
Do	8	171	Do	13	290
Do	8	181	Do	13	291
Do	11	241	Patrolman, air corps	9	221
Painter, sign, leader	9	208	Patrolman, armed	13	287
Painter, snapper	11	241	Do	13	288
Painter, special leadingman	3	54	Do	13	289
Painter, spray	9	208	Patrolman, chief	9	208
Do	14	297	Patrolman-gateman, armed	13	288
Painter, senior	8	178	Patrolman, head of guards	9	208
Do	8	181	Patrolman, inside, armed	13	288
Painter, senior, signs	8	166	Patrolman, junior, guard	8	163
Painter, trucks	11	247	Patrolman, junior, trainee	9	208
Painter, utilities	2	50	Patrolman (mobile)	12	271
Do	8	159	Patrolman, mounted and unmounted	13	285
Painter helper	7	139	Patrolman, mounted, unmounted, armed	13	289
Pants press operator	8	182	Patrolman, principal	9	208
Parachute and clothing foreman	14	297	Patrolman, senior	9	208
Parachute and clothing repairman	14	297	Patrolman trainee	13	285
Parachute and clothing repairman, senior	14	297	Do	13	289
Parachute and flight clothing inspector	14	297	Do	13	290
Parachute foreman, leather and canvas	8	169	Patrolman trainee, armed	13	287
Parachute inspector	14	302	Do	13	288
Parachute repairman	2	50	Patrolman, unmounted	13	290
Do	3	52	Pattern foreman	7	136
Do	4	79	Patternmaker	2	23
Do	4	82	Do	3	57
Do	12	254	Do	4	76
Parachute rigger	8	164	Do	5	92
Parachute rigger foreman	8	164	Do	6	118
Parachute rigger helper	8	164	Do	11	233
Parachute sewer, intermediate	11	241	Patternmaker apprentice	4	73
Parachute sewer, minimum	11	241	Do	5	96
Parcel-post clerk	4	83	Do	11	233
Do	4	84	Patternmaker, clothing	2	29
Do	4	86	Patternmaker, metal	7	129
Do	8	142	Patternmaker (plaster)	12	254
Do	10	229	Patternmaker, senior	6	118
Do	11	244	Patternmaker, wood	12	257
Do	14	293	Payroll machine operator	13	277
Parcel-post dispatcher	10	229	Perforating machine operator	10	229
Do	14	293	Personnel assistant	11	231
Parcel-post inspector	9	204	Do	11	233
Parts buffer	9	221	Personnel assistant, general	11	230
Parts expert, clerical	8	176	Personnel clerk	8	154
Parts inspector	9	221	Do	8	157
Parts man, automobile	8	165	Do	8	158
Parts man, engine overhaul	11	241	Do	13	281
Parts tracer	9	221	Personnel clerk and secretary	8	159
Passenger elevator operator	4	84	Personnel counselor	8	171
Do	4	86	Personnel section foreman	11	244
Do	7	127			

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Petrographer.....	13	275	Planning foreman and assistant.....	7	136
Pharmacist.....	8	154	Plant production chief.....	6	118
Do.....	8	157	Plasterer.....	3	57
Do.....	8	158	Do.....	4	80
Do.....	8	159	Do.....	5	92
Do.....	9	196	Do.....	8	166
Pharmacist, assistant.....	9	196	Do.....	11	233
Photographer.....	3	54	Plastic fabricator.....	2	50
Do.....	3	68	Plastic molder.....	3	66
Do.....	3	71	Plate and gage maker, optical glass.....	12	269
Do.....	12	258	Platemaker.....	3	63
Do.....	13	277	Do.....	13	277
Photographer helper.....	3	68	Plater.....	7	136
Photographic aide.....	3	54	Do.....	11	237
Do.....	13	277	Plater helper.....	7	136
Photolithographer.....	3	63	Do.....	11	241
Photolithographic book binder.....	3	68	Plating operator.....	7	124
Photolithographic book binder helper.....	3	68	Plumber.....	1	12
Photolithographic plate maker (zinc).....	3	68	Do.....	2	35
Photolithographic pressman.....	3	68	Do.....	3	59
Photolithographic reproducer helper.....	6	118	Do.....	3	68
Photostat operator.....	2	44	Do.....	4	76
Do.....	3	54	Do.....	4	78
Do.....	3	71	Do.....	4	79
Do.....	13	277	Do.....	4	80
Photostatic camera operator.....	3	68	Do.....	4	84
Physical therapy aide.....	8	158	Do.....	4	88
Physical therapy chief.....	8	158	Do.....	4	89
Physical therapy technician.....	8	153	Do.....	5	96
Do.....	8	154	Do.....	6	101
Physical therapy technician, chief.....	8	153	Do.....	6	105
Do.....	8	154	Do.....	7	127
Physical therapy technician, junior.....	8	153	Do.....	7	138
Do.....	8	154	Do.....	7	139
Physical training director.....	14	297	Do.....	8	141
Physiotherapist.....	8	159	Do.....	8	153
Physiotherapist, assistant.....	8	159	Do.....	8	154
Physiotherapy aide.....	7	129	Do.....	8	155
Physiotherapy aide, chief.....	8	157	Do.....	8	157
Physiotherapy aide, junior.....	8	157	Do.....	8	158
Physiotherapy aide, staff.....	8	157	Do.....	8	160
Physiotherapy attendant.....	8	154	Do.....	8	164
Picker.....	9	208	Do.....	8	166
Pickling operator.....	2	40	Do.....	8	170
Pier foreman.....	12	272	Do.....	8	178
Pile driver foreman.....	9	204	Do.....	8	179
Pile driver operator.....	9	204	Do.....	8	182
Pipe coverer.....	12	257	Do.....	9	191
Pipe coverer and insulator.....	1	15	Do.....	9	196
Do.....	3	57	Do.....	9	202
Do.....	4	76	Do.....	9	208
Do.....	4	80	Do.....	11	241
Do.....	5	92	Do.....	12	253
Do.....	11	233	Do.....	12	260
Do.....	12	257	Do.....	12	264
Pipe coverer and insulator, ship.....	2	23	Do.....	13	284
Pipe coverer and insulator, shop.....	2	23	Do.....	14	257
Pipe fitter.....	3	57	Do.....	14	300
Do.....	3	59	Plumber and steam fitter foreman.....	9	208
Do.....	4	78	Plumber and steam fitter helper.....	8	157
Do.....	4	79	Plumber apprentice.....	5	97
Do.....	5	92	Plumber foreman.....	7	136
Do.....	7	124	Do.....	8	165
Do.....	8	141	Do.....	8	170
Do.....	11	233	Do.....	8	181
Do.....	11	241	Do.....	8	182
Do.....	12	272	Do.....	14	297
Pipe fitter foreman.....	11	233	Plumber foreman, working.....	8	166
Pipe fitter helper.....	3	54	Plumber helper.....	4	88
Do.....	3	59	Do.....	7	139
Do.....	4	78	Do.....	8	141
Do.....	8	141	Do.....	8	153
Do.....	11	241	Do.....	8	154
Pipe fitter leadingman.....	3	54	Do.....	8	158
Pipe fitter quartermaster.....	3	54	Do.....	8	160
Pipe fitter, ship.....	1	15	Do.....	8	165
Do.....	2	23	Do.....	8	166
Do.....	4	76	Do.....	8	178
Do.....	4	80	Do.....	8	182
Pipe fitter, shop.....	1	15	Do.....	9	196
Do.....	2	23	Do.....	9	202
Do.....	4	76	Do.....	9	208
Do.....	4	80	Do.....	11	241
Pipe line foreman (dredger section).....	5	92	Plumber, junior.....	8	165
Piston-honing operator.....	14	302	Do.....	8	170
Planer machine operator.....	2	23	Do.....	8	181
Plannerman patternmaker.....	11	233	Do.....	9	202

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Plumber mechanic helper	7	136	Press operator, dry cleaning	8	175
Plumber, senior	8	165	Press operator, shirt	8	175
Do	8	170	Press operator, shirt folder	8	175
Do	8	178	Press operator, special	8	175
Do	8	181	Presser	3	59
Do	8	182	Do	3	71
Do	9	202	Presser, apparel	8	181
Plumber, ship	1	15	Presser, finisher	11	233
Plumber, shop	1	15	Presser, hand	2	29
Plumber steam fitter	8	167	Presser, hand, laundry	2	44
Plumber, utilities	2	50	Presser operator, laundry	2	44
Pneumatic drill runner	11	233	Pressing foreman	9	187
Pneumatic tubes foreman	2	35	Pressman	3	68
Pneumatic tubes operator	2	35	Pressman (coiner), junior	12	267
Pocket setter and maker	3	71	Pressman (coiner), senior	12	267
Policeman	5	97	Pressman operator	2	40
Polisher	6	101	Primer assembler	2	41
Do	6	114	Primer inserter	2	41
Do	7	136	Primer worker	3	68
Port patrol officer	2	44	Printer	3	68
Do	12	271	Do	7	136
Port patrol officer, airport detail	2	44	Printer, mechanical unit	12	261
Port patrol officer, cashiers detail	2	44	Printer's helper	3	68
Port patrol officer, enforcement division	2	44	Printing foreman and assistant	7	136
Port patrol officer, pistol range detail	2	44	Process cameraman	3	63
Port patrol officer, port patrol division	2	44	Procurement clerk	8	157
Port patrol officer, seizure room	2	44	Production and maintenance machinist	4	73
Port patrolman, customs	3	65	Production estimator assistant	7	136
Porter	9	204	Production follow-up man assistant	7	136
Position classifier	3	54	Production route-sheet assistant	7	136
Postal cashier	11	244	Projector operator	14	297
Do	11	246	Proof reader	3	63
Postal cashier, assistant	11	244	Proof technician	8	162
Postal clerk	4	83	Proof technician, assistant	8	162
Do	4	84	Proof technician, chief	8	162
Do	6	107	Proof technician, junior	8	162
Do	8	148	Proof technician, minor	8	162
Postal clerk, substitute	1	12	Proof technician, principal	8	162
Postmaster	4	87	Proof technician, senior	8	162
Do	11	244	Proof technician, under	8	162
Do	11	246	Propeller inspector	8	181
Do	11	248	Propeller mechanic	8	170
Postmaster, assistant	8	142	Property accounts clerk	8	157
Do	8	143	Property and supply clerk	3	54
Do	8	145	Do	11	241
Do	8	146	Do	3	54
Do	8	147	Do	14	297
Do	8	148	Property clerk	8	178
Do	8	149	Property clerk, senior	8	181
Do	8	150	Property man	2	47
Do	8	151	Property manager	6	107
Do	11	246	Prover	3	65
Do	11	244	Prover (coiner), junior	12	267
Powder and explosives chemist	9	210	Prover (coiner), senior	12	267
Powder and explosives inspector	9	210	Psychiatric social worker	8	157
Powder cutting operator	2	40	Puller, laundry, laborer	2	44
Powder factory attendant	4	77	Pump and compressor operator	12	255
Powder monkey	8	161	Pump operator	6	111
Powder ordnanceman	14	292	Do	7	127
Powder trucker, explosives	2	40	Do	14	300
Powderman	9	186	Pump operator, diesel	9	186
Power equipment supervisor	9	202	Punch machine operator	2	23
Power hacksaw machine operator	3	57	Do	11	233
Power lift operator	9	202	Punch machine operator, print shop	4	89
Power loading machine operator	7	136	Punch press machine operator	2	41
Power machine operator	9	202	Do	3	68
Power plant engineer, assistant	9	187	Punch press operator	11	233
Power plant foreman	12	257	Punch press operator, sheet-metal	2	44
Power-press trainee, machine shop	4	77	Puncher	1	15
Power saw operator	9	221	Do	3	57
Power sewing machine operator	12	257	Do	5	92
Power-shovel operator (Lima)	9	186	Do	11	233
Power-shovel operator (Northwest)	9	186	Puncher and shearer	4	73
Power tools machine operator	3	57	Do	4	76
Powerhouse operator	11	233	Do	12	257
Do	12	252	Puncher, sheet-metal shop	2	23
Powerhouse operator, senior	12	252	Purchasing agent	3	54
Powerhouse operator, under	12	252	Do	13	281
Predrying machine operator	9	202	Purchasing clerk	3	54
Precision-grinder machine operator	7	136			
Precision optical worker	3	68			
Precision optical worker helper	3	68			
Press cutting machine operator	2	23	Quarry supervisor	9	186
Press operator	5	92	Quartermen	3	63
Do	8	175	Quartermen, public works	3	54
Do	11	233	Quartermen, transportation	3	54
Press operator, clothing	2	29	Quartz crystal technician	3	69

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Radiator mechanic	4	83	Renovation plant foreman, assistant	9	202
Radiator repairman	9	191	Renovation plant leader	9	202
Radiator tinsmith repairman	2	35	Renovation plant worker	9	202
Radiator tube cleaner	5	95	Repair foreman and assistant	7	136
Radio and electronic repair foreman	14	297	Repairman	12	271
Radio communications operator	12	253	Repairman, general	7	136
Radio electrician	12	257	Do	11	241
Radio electric instrument repair foreman	9	221	Retoucher, photographic	2	47
Radio electrical instrument repairman	9	221	Rib stitcher	4	79
Radio electrical instrument repairman, junior	9	221	Do	12	254
Radio electrical instrument repairman, senior	9	221	Do	14	302
Radio engineer	3	54	Rider, horses	8	167
Do	3	57	Rigger	1	15
Radio inspector	3	54	Do	1	19
Radio inspector, assistant	3	57	Do	2	23
Radio inspector, junior	3	57	Do	3	57
Radio mechanic	6	118	Do	3	59
Do	11	253	Do	4	80
Do	12	258	Do	5	93
Do	14	292	Do	7	136
Radio repair foreman	9	221	Do	8	170
Do	14	297	Do	11	233
Radio repair inspector, senior	14	297	Rigger, antennae	4	80
Radio repairman	3	69	Do	12	274
Do	9	221	Rigger apprentice	5	97
Do	12	254	Rigger, arsenal	4	80
Do	12	273	Rigger foremen	11	234
Do	14	297	Rigger general foreman	11	234
Radio repairman helper	9	221	Rigger helper	3	54
Radio repairman, junior	9	221	Do	11	234
Do	14	297	Rigger leadingman	3	54
Radio repairman, senior	9	221	Rigger, net maker	12	259
Do	14	297	Rigger, shop	4	76
Radium-dial painter	14	302	Rivet heater	2	23
Railroad brakeman	7	136	Do	3	58
Do	14	299	Do	4	81
Railroad conductor	3	57	Do	5	93
Railroad hostler	14	299	Do	11	234
Railroad track foreman	9	202	Do	12	257
Do	14	299	Rivet shear operator	11	234
Railroad trackman	9	202	Riveter	2	23
Do	14	299	Do	3	58
Railway postal clerk	12	262	Do	5	93
Do	14	293	Do	7	136
Railway postal transfer clerk	12	262	Do	11	234
Range examiner	13	277	Do	12	257
Rating examiner	11	233	Riveter, ship	4	76
Rating specialist, claims	9	198	Do	4	81
Reaming machine operator	2	41	Do	4	76
Receipt clerk	13	277	Do	4	81
Receiver, laundry	8	182	Road foreman	13	281
Receptionist clerk	13	277	Road roller operator, utilities	2	50
Record chief	5	93	Road surface worker	14	297
Do	5	96	Roads and grounds foreman	8	165
Records chief	9	189	Do	9	208
Do	9	191	Roads and grounds foreman, assistant	14	297
Records clerk	4	83	Roads and runways foreman	14	297
Recorder	2	47	Roads and runways foreman, assistant	14	297
Recreation supervisor	8	161	Rodman	11	241
Recreational aide	8	153	Roller (coiner), junior	12	267
Do	8	158	Roller (coiner), senior	12	267
Recreational equipment examiner	9	202	Roller, silver and minor coinage, junior and senior	3	65
Recuperator foreman and assistant	7	136	Roofer	4	81
Refrigeration control repairman	6	110	Do	5	93
Refrigeration engineer	8	177	Do	7	136
Refrigeration engineman	6	118	Do	8	141
Refrigeration mechanic	5	92	Do	12	269
Do	8	170	Roofer, building trades	1	15
Refrigeration mechanic, senior	9	187	Rope maker	1	15
Refrigeration operator	8	165	Rotor balancing machine operator	9	221
Refrigeration repairman	14	300	Route supervisor	9	189
Refrigerator mechanic	7	139	Do	9	191
Do	8	154	Do	11	247
Refrigerator operator, senior	8	181	Rubber flotation repairman	11	241
Regional forester	13	277	Rural pay clerk	8	149
Regional forester, assistant	13	277	S		
Registered mail clerk	8	142	Saddlemaker	6	111
Registrar	9	198	Safety engineer	3	54
Registration officer	9	198	Do	8	161
Registry clerk	8	149	Do	14	299
Do	8	150	Safety engineer, ground	8	170
Do	14	293	Safety inspector	8	161
Reinforced steel worker	5	93	Sailmaker	3	58
Renovation plant foreman	9	202	Do	4	76
			Do	4	81
			Do	5	93

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Sailmaker	11	234	Sewer	12	255
Do	12	257	Sewer, bomb chutes	8	175
Sailmaker apprentice	5	97	Sewer operator	3	71
Sailmaker, canvas worker	2	23	Sewing machine adjuster	4	77
Sailmaker, ship	1	15	Sewing machine operator	2	29
Sailmaker, shop	1	15	Do	3	59
Salvage and disposal worker	14	297	Do	3	71
Salvage clerk, forage	8	178	Do	4	77
Salvage inspector	9	208	Do	7	137
Salvage man	9	208	Do	8	169
Salvage man, banding steel	9	208	Do	11	234
Salvage man helper	9	208	Sewing machine operator, coats	2	29
Salvage man, lumber	9	208	Sewing machine operator, pockets	2	29
Salvage man, paper	9	208	Sewing machine operator, power	5	97
Sandblast machine operator helper	12	254	Sewing machine operator, trouser	2	29
Sandblast operator	7	136	Sewing machine repairman	3	71
Sandblast operator helper	7	136	Shaper machine operator	2	23
Sandblaster	3	58	Shearer	1	15
Do	4	73	Do	3	58
Do	5	93	Do	5	93
Do	7	124	Do	11	234
Do	11	237	Shearer, sheet-metal	2	44
Do	14	302	Shearer, sheet-metal shop	2	23
Sandblaster and helper	12	254	Shearing machine operator	2	23
Sandblaster, ground duty	2	23	Sheet-metal foreman	7	139
Sandblaster-shotblaster, ground	11	234	Sheet-metal foreman and assistant	7	137
Sanitary engineer	7	139	Sheet-metal machine operator	7	137
Saw filer	2	23	Sheet-metal man, shop	13	284
Do	3	58	Sheet-metal power-machine operator	9	221
Do	3	59	Sheet-metal worker	2	41
Do	4	73	Do	3	54
Do	5	97	Do	3	58
Do	7	136	Do	3	59
Do	8	177	Do	4	73
Do	11	234	Do	4	76
Do	12	269	Do	4	78
Sawyer	9	208	Do	5	93
Scale and typewriter mechanic	8	143	Do	7	137
Scale builder and adjuster	3	65	Do	7	139
Scale mechanic	7	128	Do	8	141
Do	9	191	Do	8	165
Do	12	261	Do	8	170
Do	12	265	Do	8	179
Scaler, mill platform	12	250	Do	8	181
Scaler, railroad cars	12	250	Do	9	208
Scaler, landing platform	12	250	Do	11	241
Scientific aide (all grades)	3	71	Do	11	249
Scientific illustrator	3	54	Do	12	269
Scratch brusher	11	237	Do	12	272
Screw-machine operator	7	124	Do	14	300
Screw-machine operator, hand	3	68	Sheet-metal worker (aircraft)	3	52
Seamstress	3	71	Sheet-metal worker apprentice	4	73
Do	4	88	Do	5	97
Do	7	133	Sheet-metal worker, bench	2	23
Do	8	157	Sheet-metal worker, building trades	1	15
Do	8	159	Sheet-metal worker helper	3	58
Do	8	175	Do	3	59
Do	8	181	Do	4	73
Do	8	182	Do	8	141
Do	11	234	Sheet-metal worker, junior	8	181
Do	14	302	Sheet-metal worker, maintenance	6	111
Seamstress, clothing	8	165	Sheet-metal worker (mechanical unit)	3	59
Seamstress, dry cleaning	8	175	Sheet-metal worker, senior	8	181
Seamstress, hand	2	29	Sheet-metal worker, ship	1	15
Seamstress, hand operator	3	71	Do	2	23
Seamstress, laundry	8	153	Sheet-metal worker, shop	1	15
Do	8	154	Sheet-metal worker, utilities	2	50
Do	8	155	Shellacker	3	41
Seamstress, senior	8	182	Ship and shop electrician	14	283
Seamstress, utility	8	155	Ship joiner	4	76
Secretary	8	157	Do	4	81
Secretary, local	2	31	Ship keeper	8	163
Security officer, female	12	253	Ship rigger	11	234
Selector	3	65	Ship scaler	12	255
Senior safety inspector	12	254	Shipfitter	1	15
Sergeant of relief	8	173	Do	2	23
Set-up man	7	137	Do	3	58
Do	11	237	Do	11	234
Set-up man, automatic screw machine	5	68	Shipfitter apprentice	5	97
Sewerage disposal equipment operator	8	179	Shipfitter helper	12	272
Sewerage and disposal plant operator	8	155	Shipfitter helper and trainee	3	58
Sewerage disposal plant operator	8	179	Shipfitter, ship	4	76
Sewerage disposal plant worker	9	199	Do	4	81
Sewerage disposal worker	3	66	Shipfitter, shop	4	76
Sewer	3	58	Do	4	81
Do	5	93	Shipkeeper	6	115
Do	11	234	Shipper, laundry	8	183
			Shipping and receiving supervisor	8	172

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Shipwright	2	23	Starter and generator repairman	14	362
Do	3	58	Starter-elevator operator	6	107
Do	4	76	Station superintendent	11	243
Do	4	81	Do	11	245
Do	5	93	Station superintendent, assistant	11	243
Do	11	234	Do	11	245
Do	12	257	Stationary engineer	14	297
Shipwright apprentice	5	97	Stationary engineer, utilities	2	50
Shirt unit operator	8	183	Stationary fireman	8	141
Shoe repairman	7	133	Statistical clerk	3	54
Do	8	165	Statistical draftsman	3	55
Do	14	302	Do	14	297
Shoe repairman, junior and senior	8	183	Steam-electric engineman	9	187
Shook shop foreman	8	177	Steam fitter	2	35
Shop boy	7	137	Do	3	69
Shop equipment identifier	9	221	Do	4	88
Shop foreman	8	170	Do	7	127
Do	8	181	Do	7	128
Do	9	186	Do	7	137
Do	9	191	Do	8	141
Shop foreman, assistant	8	170	Do	8	155
Do	8	181	Do	8	157
Shop foreman, custodial	4	84	Do	8	160
Shop girl	7	137	Do	8	170
Shop inspector	7	137	Do	8	183
Shop superintendent	8	168	Do	9	196
Sign painter	2	41	Do	11	241
Do	9	221	Do	14	300
Do	14	297	Steam fitter foreman	8	170
Sign painter, card writing	8	170	Do	8	183
Sign painter, senior	9	221	Steam fitter helper	4	88
Skilled laborer	12	253	Do	8	160
Skilled workman (colner), junior	12	267	Do	8	183
Skilled workman (colner), senior	12	267	Do	11	241
Small-arms foreman and assistant	7	137	Steam fitter, junior	8	170
Small-arms maintenance subinspector	7	137	Steam fitter, junior and senior	8	183
Small-arms repairman	7	137	Steam fitter, senior	8	170
Snapper conductor	3	54	Steam fitter utilities	2	50
Sock finisher	8	181	Stencil cutter	9	204
Sole and fitting foreman	9	187	Stenciler	9	208
Sorter	4	82	Stenciler foreman	9	208
Sorter and sub sorter	8	183	Stenographer and typist	5	93
Sorter, rivets	5	95	Stevedore	4	81
Sorting and dispatching clerk	11	248	Stillman, assistant, petroleum	9	185
Sorting clerk	10	224	Stillman, chief, petroleum	9	185
Sorting machine operator	2	35	Stillman, petroleum processing	9	185
Sound apparatus, repairman	2	47	Stillman, principal, petroleum	9	185
Spark-plug cleaner	9	221	Stock chaser	9	221
Do	14	302	Stock chaser foreman	9	221
Spark-plug cleaner (buffer)	5	95	Stock clerk	2	33
Spark-plug core cleaner	5	95	Do	6	105
Spark-plug disassembler	5	95	Do	9	189
Spark-plug inspector	9	221	Do	12	260
Spark-plug reassembler and packer	5	95	Do	12	261
Spark-plug repairman	9	221	Do	12	265
Spark-plug repairman, senior	9	221	Do	12	266
Spark-plug sandblaster	5	95	Stock clerk, junior	8	143
Special agent	1	18	Do	9	191
Special clerk	11	246	Stock clerk, laundry	8	157
Do	11	248	Do	12	268
Special delivery clerk	8	151	Stock finisher	7	137
Special delivery messenger	8	143	Stock receiver	9	221
Do	8	149	Stockroom clerk	4	83
Do	11	247	Do	7	127
Special delivery messenger, foot	11	247	Do	7	129
Special machine operator	5	93	Stock tracer	8	181
Special mechanic, motor vehicles	11	247	Stockman-storekeeper	11	234
Splicer, film	2	47	Stoker repairman	6	110
Sponging machine operator	3	59	Stone finisher operator	9	186
Sponging machine operator helper	3	59	Stone mason	3	58
Spot welder	2	23	Do	4	81
Do	9	202	Do	7	129
Do	9	221	Do	11	234
Spotter, wool	8	175	Do	12	253
Spray painter	4	77	Stone mason, assistant	12	253
Spray painter helper trainee	4	89	Storage clerk, assistant	9	204
Spreader	3	59	Storekeeper	1	15
Spreader, clothing worker	2	29	Do	3	55
Spring making machine operator	2	41	Do	4	76
Squad leader, cold storage	9	202	Do	4	77
Stable foreman	8	167	Do	4	81
Stage grip	2	47	Do	4	89
Stamp clerk	8	149	Do	4	90
Do	8	151	Do	7	138
Stamp window clerk	8	149	Do	7	139
Stapling machine mechanic	9	191	Do	8	155
Stapling machine operator	4	89	Do	8	159

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Do.....	8	161	Storekeeper, senior, supply.....	8	171
Do.....	8	162	Storekeeper-stockman.....	11	241
Do.....	8	163	Storekeeper, subsistence.....	8	155
Do.....	8	170	Do.....	8	157
Do.....	8	172	Do.....	9	197
Do.....	8	173	Storekeeper, supply.....	8	171
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Do.....	8	178	Storekeeper, supply division.....	8	155
Do.....	8	181	Storekeeper, supply office.....	11	241
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Do.....	9	221	Storekeeper, sustenance.....	8	155
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Do.....	7	138	Storekeeper, under (auto parts).....	8	165
Do.....	7	139	Storekeeper, under (supply).....	5	95
Do.....	8	172	Storeroom clerk, garage supplies.....	2	50
Do.....	8	173	Storeroom keeper.....	3	63
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Do.....	9	187	Stove repairman.....	6	111
Do.....	11	241	Stoves and ranges inspector.....	6	111
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Storekeeper, assistant and junior.....	8	183	Structural engineer.....	11	241
Storekeeper, assistant (engineers).....	8	165	Subinspector, cartridge distribution.....	8	162
Storekeeper, assistant (general ware- house).....	8	178	Subinspector, dredge.....	8	163
Storekeeper, assistant (ordnance).....	8	177	Subinspector, mercury crack.....	8	162
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Storekeeper, chief.....	8	173	Subinspector, primer drop.....	8	162
Storekeeper (clerical).....	8	173	Subinspector, process inspector.....	8	162
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Do.....	8	157	Substitute clerk.....	11	246
Storekeeper, clothing (warehouse).....	8	177	Substitute railway postal clerk.....	1	17
Storekeeper, depot supply.....	2	50	Do.....	5	93
Storekeeper (engineers).....	8	167	Do.....	5	95
Do.....	8	178	Superintendent.....	8	140
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Storekeeper, general.....	8	155	Superintendent, assistant.....	2	35
Do.....	8	157	Superintendent of building.....	12	260
Do.....	9	196	Superintendent, cemetery.....	12	253
Storekeeper, head.....	8	173	Do.....	13	288
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Do.....	4	76	Superintendent of construction and maintenance.....	9	202
Do.....	4	81	Superintendent, farm.....	8	155
Do.....	4	89	Do.....	8	157
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Do.....	7	139	Do.....	8	155
Do.....	8	161	Do.....	8	157
Do.....	8	170	Do.....	8	160
Do.....	8	172	Do.....	8	183
Do.....	8	177	Superintendent of mails.....	2	31
Do.....	8	181	Do.....	8	142
Do.....	9	187	Do.....	8	147
Do.....	11	241	Do.....	8	148
Do.....	12	255	Do.....	8	149
Do.....	14	300	Do.....	8	151
Storekeeper, junior (auto parts).....	8	165	Do.....	11	244
Storekeeper, junior (general ware- house).....	8	178	Do.....	11	247
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Storekeeper, junior, receiving clerk.....	8	165	Superintendent of mails, assistant.....	2	31
Storekeeper, junior, supply.....	8	171	Do.....	8	149
Storekeeper, laborer.....	8	173	Do.....	11	244
Storekeeper, light duty.....	6	118	Do.....	11	247
Storekeeper, motor parts.....	6	113	Do.....	11	248
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Storekeeper, quartermaster.....	8	165	Do.....	5	95
Do.....	8	167	Do.....	11	247
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Do.....	8	171	Superintendent, shop.....	8	181
Do.....	8	177	Superintendent, shop assistant.....	8	181
Storekeeper, senior (clothing ware- house).....	8	178	Superintendent, station.....	8	150
Storekeeper, senior (ordnance).....	8	177	Superintendent of station.....	11	248
Do.....	8	178	Superintende..t, warehouse, supply.....	8	171

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Do.....	5	95	Do.....	12	264
Supervisor, checker (laundry).....	8	181	Telephone operator and special clerk.....	8	149
Supervisor, flat work ironer.....	8	181	Telephone operator, assistant chief.....	6	105
Supervisor, maintenance shop.....	14	299	Telephone operator, chief.....	1	12
Supervisor, marker (laundry).....	8	181	Do.....	2	35
Supervisor, messenger service.....	8	183	Do.....	6	105
Supervisor of attendants.....	8	155	Do.....	12	260
Supervisor, route.....	2	35	Telephone operator, PBX.....	8	176
Supervisor, shells and explosives.....	8	141	Telephone operator supervisor.....	12	260
Supervisor, shoe shop.....	8	183	Telephone repairman.....	3	69
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Supply chief.....	5	93	Do.....	14	292
Do.....	5	95	Temperer.....	3	58
Do.....	9	189	Do.....	4	73
Do.....	9	191	Do.....	4	78
Do.....	9	198	Do.....	11	234
Supply clerk, laundry.....	8	183	Do.....	12	255
Supply inspector.....	14	297	Tent-cot repairman.....	9	202
Supply inspector, principal.....	14	297	Tent repairman.....	7	133
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Do.....	9	198	Tetryl nitrator operator.....	2	41
Supply officer, assistant.....	8	157	Textile examiner.....	3	71
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Surface grinding machine operator.....	7	137	Textile inspector.....	2	29
Surface treater.....	7	137	Textiles foreman.....	7	133
Surface treater helper.....	7	137	Thread press operator.....	2	41
Surgical assistant.....	8	159	Threading machine operator.....	2	41
Surveyor, chief of party.....	11	241	Do.....	4	81
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Sweeper.....	4	81	Tier, package laundry.....	8	183
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Switchboard operator.....	11	234	Tile and plate setter.....	5	93
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Tabulating equipment operator.....	3	55	Tile setter.....	3	58
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Do.....	2	44	Time clerk, supply office.....	11	241
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Do.....	14	299	Timekeeping instrument repairman, junior.....	9	221
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Tallyman.....	1	19	Tool heat treater.....	2	41
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Telephone mechanic.....	8	145	Tool-kit inspector.....	9	208
Telephone operator.....	1	12	Tool-kit packer.....	9	209
Do.....	2	44	Tool-kit packer foreman.....	9	209
Do.....	3	55	Tool maker.....	1	15
Do.....	3	63	Do.....	2	23
Do.....	4	86	Do.....	2	41
Do.....	4	88	Do.....	2	58
Do.....	5	93	Do.....	3	59
Do.....	5	94	Do.....	4	73
Do.....	6	101	Do.....	4	76
Do.....	6	105	Do.....	5	93
Do.....	6	107	Do.....	7	124
Do.....	7	129	Do.....	7	137
Do.....	8	145	Do.....	11	234
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Do.....	8	153	Do.....	12	255
Do.....	8	171	Tool maker, precision.....	7	137
Do.....	8	173	Tool making foreman and assistant.....	7	137
Do.....	8	174	Tool-room helper, heavy.....	7	124
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Track foreman	8	179	Typewriter mechanic helper	9	191
Track gang boss	8	179	Typewriter repairman	3	55
Trackman	3	58	Do.	8	177
Do.	4	81	Do.	12	261
Do.	5	93			
Do.	12	257	U		
Trackman, building trades	1	15	Under engineering aide	3	68
Tractor and lift operator	2	44	Under presser	3	71
Tractor lift operator	9	209	Upholsterer	2	23
Tractor lift operator foreman	9	209	Do.	3	58
Tractor operator	3	69	Do.	4	76
Do.	4	77	Do.	4	81
Do.	4	90	Do.	11	234
Do.	6	115	Do.	12	255
Do.	9	186	Do.	14	292
Do.	9	202	Upholsterer and helper	8	171
Do.	14	297	Utilities and maintenance foreman	9	209
Do.	14	299	Utilities repairman	7	137
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Do.	11	241	V		
Do.	14	298	Varitype operator	14	299
Traffic manager	3	55	Varitypist	3	55
Trailer-truck driver	9	209	Vehicle inspector	9	209
Training officer	1	19	Vehicle inspector, assistant foreman	9	209
Do.	9	198	Vehicle inspector foreman	9	209
Training officer, assistant	9	198	Vehicle loading inspector	9	209
Training officer, chief	9	198	Vehicle service foreman	9	209
Training officer, senior	9	198	Ventilating mechanic	7	127
Transfer engraver	3	65	Veterinarian-meat inspector	12	252
Transmitting operator	14	292	Vocational advisor	9	198
Transportation foreman	3	55	Vocational advisor, associate	9	198
Tree surgeon	3	58	Vocational rehabilitation officer	9	198
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Trouser finisher	2	29	Do.	8	174
Trouset finisher operator	3	71	Do.	12	266
Trouser maker operator	3	71	Vulcanizer, motor-vehicle service	9	189
Trouser operator	2	29			
Truck checker	3	63	W		
Truck dispatcher	6	111	Wafer and blank grader	3	69
Truck driver	2	44	Waiter	8	155
Do.	4	81	Waiter, head	4	88
Do.	7	138	Do.	8	153
Do.	7	139	Do.	8	155
Do.	8	163	Do.	8	157
Do.	8	174	Do.	9	197
Do.	8	176	Waitress	8	163
Do.	8	179	Waitress, head	8	159
Do.	9	186	Waitress, hospital	8	167
Do.	13	277	Wall washer	9	197
Do.	13	281	Ward attendant	7	133
Do.	13	284	Do.	8	155
Do.	14	298	Do.	8	160
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Do.	9	202	Do.	8	181
Do.	9	209	Do.	9	197
Do.	9	221	Ward attendant, female	7	129
Truck driver, heavy and light	2	50	Ward attendant, hospital	8	169
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Do.	8	167	Wardmaster	7	133
Do.	8	181	Warehouse foreman	9	222
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Truck driver-laborer	13	281	Warehouse foreman, senior	9	222
Truck driver, light	9	202	Warehouse laborer	7	130
Truck driver, medium	9	202	Do.	12	250
Do.	9	209	Warehouse superintendent	8	172
Do.	9	222	Warehouseman	3	63
Truck driver, medium, senior	9	222	Do.	8	175
Trucker, hand	2	44	Do.	9	222
Tufting machine operator	12	257	Do.	13	277
Tug and light truck operator	9	222	Warehouseman assistant	8	175
Tug driver	8	161	Warehouseman, junior	9	222
Tug high-lift and fork operator	9	222	Do.	14	298
Tumbler operator, laundry	2	44	Washer, automobile	12	266
Do.	8	175	Washer, machine parts	2	35
Do.	8	183	Washerman	8	157
Tumblerman	9	202	Do.	8	160
Turret lathe foreman and assistant	7	137	Do.	8	175
Turret lathe machine operator	7	137	Do.	8	181
Turret lathe operator	2	23	Do.	8	183
Do.	2	41	Washman	8	183
Do.	7	124	Washman laundry	2	44

OCCUPATION	Region	Page	OCCUPATION	Region	Page
Washroom foreman.....	9	187	Welder, sides.....	12	257
Watch and chronometer repairer.....	3	58	Welder, tack.....	12	257
Do.....	11	234	Welding foreman and assistant.....	7	137
Do.....	12	257	Wet grinding machine operator.....	7	137
Watch and chronometer repairman.....	3	68	Wharf builder.....	3	58
Do.....	5	97	Wheelwright.....	8	167
Watchman.....	4	83	Winch truck driver.....	14	300
Do.....	4	84	Window cleaner.....	2	33
Do.....	5	97	Do.....	5	93
Do.....	9	191	Do.....	8	143
Do.....	9	199	Do.....	8	144
Do.....	11	246	Do.....	9	189
Watchman-fireman.....	12	263	Do.....	9	191
Watchman-guard (policeman).....	11	234	Do.....	9	193
Water-filter operator.....	7	137	Do.....	9	209
Water tender.....	1	15	Do.....	12	261
Do.....	3	58	Window washer.....	6	105
Do.....	4	81	Do.....	11	248
Do.....	5	93	Do.....	12	260
Do.....	9	204	Do.....	12	264
Water tender, powerhouse.....	1	15	Wire and cable worker.....	14	298
Waterworks operating engineer.....	3	66	Wire cutter.....	9	209
Weather observer and recorder.....	14	292	Wireworker, aviation.....	12	255
Welder.....	3	60	Wood calker.....	1	15
Do.....	4	73	Do.....	3	58
Do.....	4	76	Do.....	11	244
Do.....	4	78	Wood machine operator.....	3	58
Do.....	4	79	Do.....	3	68
Do.....	8	165	Do.....	7	137
Do.....	8	179	Wood mill foreman.....	8	181
Do.....	9	191	Wood mill foreman, aircraft.....	8	165
Do.....	11	249	Wood mill foreman, assistant.....	8	181
Do.....	12	266	Wood products inspector.....	6	111
Welder, acetylene.....	2	41	Woodworker.....	14	298
Welder, acetylene and electric.....	9	209	Woodworker, aircraft.....	2	50
Welder, bottom.....	12	257	Woodworker helper.....	3	60
Welder, combination.....	9	209	Do.....	11	244
Welder, electric.....	2	23	Do.....	11	241
Do.....	2	41	Woodworker, senior.....	14	298
Do.....	4	76	Woodworking foreman.....	7	137
Do.....	5	93	Woodworking foreman, assistant.....	7	137
Do.....	6	115	Woodworking machine operator.....	3	69
Do.....	12	272	Woodworking mechanic, general.....	7	139
Welder, electric, ship.....	1	15	Worker, heavy duty, renovation plant.....	9	202
Welder, electric, shop.....	1	15	Worker, senior, renovation plant.....	9	202
Welder foreman.....	7	137	Wrapper.....	8	183
Welder, gas.....	4	76	Wrapper, laundry.....	2	44
Do.....	5	93			
Do.....	11	241			
Welder, gas burner.....	12	272			
Welder, gas, ship.....	1	15			
Welder, gas, shop.....	1	15			
Welder, gas, utilities.....	2	50			
Welder, general.....	7	124			
Welder, maintenance.....	9	185			
Welder, mechanic.....	8	145			
Welder, oxyacetylene.....	2	23			
Welder, senior.....	8	171			
Welder, sheet metal.....	2	44			

X

X-ray crystallographer.....

X-ray technician.....

Do.....

Do.....

Y

Yardman-gardener.....

Yardmaster.....

Do.....

